

## **Tema 0 - RECOPIACIONES DE MUCHAS EXPERIENCIAS**

[http://www.meet-physics.net/David-Harrison/index\\_spa.html](http://www.meet-physics.net/David-Harrison/index_spa.html)

Walter Fendt <http://www.walter-fendt.de/ph14s/>

Física con ordenador <http://www.sc.ehu.es/sbweb/fisica/default.htm>

Física 2000 <http://www.maloka.org/fisica2000/>

## **Tema 1 - Tornillo micrométrico y calibre**

[http://www.vjc.moe.edu.sg/fasttrack/physics/macrometer\\_ya\\_v6.htm](http://www.vjc.moe.edu.sg/fasttrack/physics/macrometer_ya_v6.htm)

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?topic=52>

<http://www.phy.uct.ac.za/courses/c1lab/vernier1.html>

<http://members.shaw.ca/ron.blond/Micrometer.APPLET/>

## **Vectores**

[http://www.walter-fendt.de/ph11s/resultant\\_s.htm](http://www.walter-fendt.de/ph11s/resultant_s.htm)

<http://www.lon-capa.org/~mmp/kap3/cd052a.htm>

[http://www.frontiernet.net/~imaging/vector\\_calculator.html](http://www.frontiernet.net/~imaging/vector_calculator.html)

<http://id.mind.net/~zona/mstm/physics/mechanics/vectors/components/vectorComponents.html>

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?topic=51>

<http://www.pa.uky.edu/~phy211/VecArith/>

<http://www.slu.edu/classes/maymk/SketchpadApplets/AddVectors.html>

<http://surendranath.org/Applets/Math/VectorAddition/VectorAdditionApplet.html>

## **Producto escalar**

<http://www.falstad.com/dotproduct/>

<http://info.ee.surrey.ac.uk/Teaching/Courses/EFT/statics/html/chapter1d.html>

[http://www.ranger.cc.tx.us/math/geogebra/vector\\_dot\\_product.html](http://www.ranger.cc.tx.us/math/geogebra/vector_dot_product.html)

<http://www.slu.edu/classes/maymk/SketchpadApplets/ProjectionDotCrossProduct.html>

## **Producto vectorial**

<http://www.phy.syr.edu/courses/java-suite/crosspro.html>

<http://surendranath.tripod.com/Applets/Math/VectorProduct/VectorProductApplet.html>

<http://info.ee.surrey.ac.uk/Teaching/Courses/EFT/dynamics/html/crossproduct.html>

<http://www.slu.edu/classes/maymk/banchoff/CrossProductSliders.html>

<http://mutuslab.cs.uwindsor.ca/schurko/nmrcourse/animations/vectors/vector.htm>

## **Tema 2 - CINEMÁTICA**

### **MUA:**

<http://www.sc.ehu.es/sbweb/fisica/cinematica/practica/practica1.htm#Experiencia>

[http://www.walter-fendt.de/ph14s/acceleration\\_s.htm](http://www.walter-fendt.de/ph14s/acceleration_s.htm)

<http://jersey.uoregon.edu/vlab/block/Block.html>

<http://phet.colorado.edu/new/simulations/index.php?cat=Motion>

**Caída:** <http://www.sc.ehu.es/sbweb/fisica/cinematica/graves/graves.htm#actividades>

### **Movimiento relativo**

<http://www.sc.ehu.es/sbweb/fisica/cinematica/relativo/relativo.htm#Actividades>

**Proyectiles:** <http://phet.colorado.edu/new/simulations/index.php?cat=Motion>

<http://www.sc.ehu.es/sbweb/fisica/cinematica/parabolico/parabolico.htm#Actividades>

<http://www.sc.ehu.es/sbweb/fisica/cinematica/parabolico/composicion/composicion.htm#Un%20blanco%20en%20caída%20libre>

<http://www.sc.ehu.es/sbweb/fisica/cinematica/parabolico/composicion/composicion.htm#Un%20vehículo%20que%20dispara%20un%20proyectil>

## **ENERGÍA**

### **Trabajo**

<http://lectureonline.cl.msu.edu/~mmp/kap5/work/work.htm>

<http://physics.gac.edu/~chuck/PRENHALL/Chapter%207/chapter7.html>

### **Energías cinética, potencial y mecánica**

[http://phet.colorado.edu/new/simulations/sims.php?sim=Energy\\_Skate\\_Park](http://phet.colorado.edu/new/simulations/sims.php?sim=Energy_Skate_Park)

<http://www.sc.ehu.es/sbweb/fisica/dinamica/trabajo/bucle/bucle.htm#Actividades>

[http://www.sc.ehu.es/sbweb/fisica/dinamica/trabajo/plano\\_inclinado/plano\\_inclinado.htm#Actividades](http://www.sc.ehu.es/sbweb/fisica/dinamica/trabajo/plano_inclinado/plano_inclinado.htm#Actividades)

### **Colisiones**

[http://www.walter-fendt.de/ph14s/collision\\_s.htm](http://www.walter-fendt.de/ph14s/collision_s.htm)

### **Movimiento circular**

[http://www.walter-fendt.de/ph14s/carousel\\_s.htm](http://www.walter-fendt.de/ph14s/carousel_s.htm)

<http://www.vjc.moe.edu.sg/fasttrack/physics/CirMotion.htm>

## **EL CAMPO GRAVITATORIO**

### **Ptolomeo**

[http://www.sc.ehu.es/sbweb/fisica/celeste/solar/sistema\\_solar.htm#Cop%C3%A9rnico%20y%20Tolomeo](http://www.sc.ehu.es/sbweb/fisica/celeste/solar/sistema_solar.htm#Cop%C3%A9rnico%20y%20Tolomeo)

<http://webpages.charter.net/middents/Ptolemy%27s%20Model.htm>

### **Kepler**

<http://teleformacion.edu.aytolacoruna.es/FISICA/document/fisicaInteractiva/gravitacion/kepler1/PlanetaryMotion.htm>

[http://galileoandstein.physics.virginia.edu/more\\_stuff/flashlets/kepler6.htm](http://galileoandstein.physics.virginia.edu/more_stuff/flashlets/kepler6.htm)

[http://www.phy.ntnu.edu.tw/oldjava/Kepler/Kepler\\_s.htm](http://www.phy.ntnu.edu.tw/oldjava/Kepler/Kepler_s.htm)

<http://www.sc.ehu.es/sbweb/fisica/celeste/kepler1/kepler1.htm#actividades>

## **Tema 3 - TERMODINÁMICA**

### **Ciclo de Carnot**

[www.cs.sbccc.net/~physics/flash/heatengines/Carnot%20cycle.html](http://www.cs.sbccc.net/~physics/flash/heatengines/Carnot%20cycle.html)

[www.bpreid.com/applets/carnotDemo.html](http://www.bpreid.com/applets/carnotDemo.html)

[http://galileoandstein.physics.virginia.edu/more\\_stuff/flashlets/carnot.htm](http://galileoandstein.physics.virginia.edu/more_stuff/flashlets/carnot.htm)

### **Ciclo Otto**

[http://techni.tachemie.uni-leipzig.de/otto/index\\_e.html](http://techni.tachemie.uni-leipzig.de/otto/index_e.html)

<http://pagesperso-orange.fr/olivier.granier/thermo/simul/rochas/simul.htm>

### **Ciclo Diesel**

[www.k-wz.de/vmotor/dieselms.html](http://www.k-wz.de/vmotor/dieselms.html)

<http://www.univ-lemans.fr/enseignements/physique/02/thermo/diesel.html>

### **Ciclo Stirling**

[www.k-wz.de/vmotor/stirling.html](http://www.k-wz.de/vmotor/stirling.html)

### **Ciclo Rankine**

<http://www.keveney.com/Locomotive.html>

### **Motor de cuatro tiempos**

[www.keveney.com/otto.html](http://www.keveney.com/otto.html)

### **Motor de dos tiempos**

[www.keveney.com/twostroke.html](http://www.keveney.com/twostroke.html)

### **Motor Wankel**

[www.keveney.com/Wankel.html](http://www.keveney.com/Wankel.html)

### **Turborreactor**

[www.grc.nasa.gov/WWW/K-12/airplane/Animation/turbtyp/ettr.html](http://www.grc.nasa.gov/WWW/K-12/airplane/Animation/turbtyp/ettr.html)

## **Tema 4 - OSCILACIONES Y ONDAS**

### **Movimiento armónico**

<http://positron.ps.uci.edu/~dkirkby/music/html/demos/SimpleHarmonicMotion/index.html>

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?topic=148>

[http://web.educastur.princast.es/ies/rosarioa/web/departamentos/fisica/teorias\\_fisicas/movimiento\\_armonico.htm](http://web.educastur.princast.es/ies/rosarioa/web/departamentos/fisica/teorias_fisicas/movimiento_armonico.htm)

<http://surendranath.tripod.com/Applets/Oscillations/SHM/SHMApplet.html>

<http://www.nhn.ou.edu/~walkup/demonstrations/WebAssignments/HarmonicMotion001.htm>

[http://teleformacion.edu.aytolacoruna.es/FISICA/document/teoria/A\\_Franco/oscilaciones/mas/mas.htm#Curvas%20de%20energ%EF%BF%BDa%20potencial](http://teleformacion.edu.aytolacoruna.es/FISICA/document/teoria/A_Franco/oscilaciones/mas/mas.htm#Curvas%20de%20energ%EF%BF%BDa%20potencial)

### **Oscilador amortiguado**

<http://cat.sckans.edu/physics/shm.htm>

### **Oscilador forzado. Resonancia**

[http://video.google.es/videosearch?](http://video.google.es/videosearch?q=tacoma+bridge+collapse&hl=es&emb=0&aq=1&oq=tacoma+bridge#q=millenium+bridge+oscillation&hl=es&emb=0)

[q=tacoma+bridge+collapse&hl=es&emb=0&aq=1&oq=tacoma+bridge#q=millenium+bridge+oscillation&hl=es&emb=0](http://video.google.es/videosearch?q=tacoma+bridge+collapse&hl=es&emb=0&aq=1&oq=tacoma+bridge#q=tacoma+bridge+oscillation&hl=es&emb=0)

[http://video.google.es/videosearch?](http://video.google.es/videosearch?q=tacoma+bridge+collapse&hl=es&emb=0&aq=1&oq=tacoma+bridge#q=tacoma+bridge+oscillation&hl=es&emb=0)

[q=tacoma+bridge+collapse&hl=es&emb=0&aq=1&oq=tacoma+bridge#q=tacoma+bridge+oscillation&hl=es&emb=0](http://www.walter-fendt.de/ph14s/resonance_s.htm)

[http://www.walter-fendt.de/ph14s/resonance\\_s.htm](http://www.walter-fendt.de/ph14s/resonance_s.htm)

### **Interferencias**

[http://www.walter-fendt.de/ph14s/interference\\_s.htm](http://www.walter-fendt.de/ph14s/interference_s.htm)

### **Reflexión**

<http://www.walter-fendt.de/ph14e/stwaverefl.htm>

### **Refracción**

<http://www.walter-fendt.de/ph14e/refraction.htm>

### **Ondas estacionarias**

[http://www.walter-fendt.de/ph14s/stlwaves\\_s.htm](http://www.walter-fendt.de/ph14s/stlwaves_s.htm)

### **Pulsaciones**

[http://www.walter-fendt.de/ph14s/beats\\_s.htm](http://www.walter-fendt.de/ph14s/beats_s.htm)

<http://library.thinkquest.org/19537/java/Beats.html>

### **Efecto Doppler**

[http://www.walter-fendt.de/ph14s/dopplereff\\_s.htm](http://www.walter-fendt.de/ph14s/dopplereff_s.htm)

### **Difracción**

<http://www.ngsir.netfirms.com/applets/diffraction/3X/Diffraction.htm>

[http://www.physics.uoguelph.ca/applets/Intro\\_physics/kisalev/java/slitdiffr/index.html](http://www.physics.uoguelph.ca/applets/Intro_physics/kisalev/java/slitdiffr/index.html)

[http://projects.cbe.ab.ca/sss/science/physics/map\\_north/applets/waterdiffraction/waterdiffraction.html](http://projects.cbe.ab.ca/sss/science/physics/map_north/applets/waterdiffraction/waterdiffraction.html)

<http://surendranath.tripod.com/Applets/Optics/Slits/SingleSlit/SnglSlitApplet.html>

<http://www.lon-capa.org/~mmp/kap27/Gary-Diffraction/app.htm>

### **Experimento de Young**

[http://projects.cbe.ab.ca/sss/science/physics/map\\_north/applets/waterdiffraction/waterdiffraction.html](http://projects.cbe.ab.ca/sss/science/physics/map_north/applets/waterdiffraction/waterdiffraction.html)

### **Polarización**

<http://fys.kuleuven.be/pradem/applets/suren/Twave/PolWave.html>

[http://www.ee.buffalo.edu/faculty/cartwright/java\\_applets/polarization/simulations/polarizer.html](http://www.ee.buffalo.edu/faculty/cartwright/java_applets/polarization/simulations/polarizer.html)

<http://www.amanogawa.com/archive/Polarization/Polarization.html>

[http://www.colorado.edu/physics/2000/polarization/blocking\\_light.html](http://www.colorado.edu/physics/2000/polarization/blocking_light.html)

### **Polarización por reflexión:**

<http://www.colorado.edu/physics/2000/applets/polarized.html>

**Ley de Malus:** <http://lectureonline.cl.msu.edu/~mmp/kap24/polarizers/Polarizer.htm>

### **Cristales líquidos**

<http://www.colorado.edu/physics/2000/applets/dishsoap.html>

<http://www.colorado.edu/physics/2000/laptops/calculator2.html>

## **Tema 5 - CAMPO MAGNÉTICO**

### **Campo magnético**

<http://www.walter-fendt.de/ph11e/mfbar.htm>

### **Fuerza de Lorentz**

[http://www.physics.upenn.edu/courses/gladney/phys151/lectures/lecture\\_feb\\_24\\_2003.shtml](http://www.physics.upenn.edu/courses/gladney/phys151/lectures/lecture_feb_24_2003.shtml)

<http://www.lon-capa.org/~mmp/kap21/cd533capp.htm>

<http://www.walter-fendt.de/ph11e/electricmotor.htm>

### **Fuerza sobre una corriente eléctrica**

<http://www.walter-fendt.de/ph11e/lorentzforce.htm>

<http://www.walter-fendt.de/ph11e/electricmotor.htm>

### **Campo creado por una corriente eléctrica**

<http://www.walter-fendt.de/ph11e/mfwire.htm>

### **Experimento de Faraday**

<http://micro.magnet.fsu.edu/electromag/java/faraday/index.html>

<http://micro.magnet.fsu.edu/electromag/java/faraday2/index.html>

### **Ley de Lenz**

<http://micro.magnet.fsu.edu/electromag/java/lenzlaw/index.html>

### **Inducción electromagnética**

<http://micro.magnet.fsu.edu/electromag/java/faraday2/>

<http://www.lon-capa.org/~mmp/applist/induct/faraday.htm>

[http://www.vjc.moe.edu.sg/academics/dept/physics\\_dept/applet/fara/faraday\\_demo.htm](http://www.vjc.moe.edu.sg/academics/dept/physics_dept/applet/fara/faraday_demo.htm)

### **Generador de corriente continua**

<http://micro.magnet.fsu.edu/electromag/java/generator/dc.html>

### **Corriente de Foucault**

<http://micro.magnet.fsu.edu/electromag/java/detector/>

### **Corriente alterna**

<http://micro.magnet.fsu.edu/electromag/java/generator/ac.html>

<http://www.mhhe.com/physsci/physical/giambattista/induction/induction.html>

### **Motor de corriente alterna**

<http://www.phyclips.unsw.edu.au/jw/electricmotors.html#schematics>

## **INDUCCIÓN ELECTROMAGNÉTICA**

### **Experimento de Faraday**

<http://micro.magnet.fsu.edu/electromag/java/faraday/index.html>

<http://micro.magnet.fsu.edu/electromag/java/faraday2/index.html>



**Ley de Lenz**

<http://micro.magnet.fsu.edu/electromag/java/lenzlaw/index.html>

**Inducción electromagnética**

<http://micro.magnet.fsu.edu/electromag/java/faraday2/>

<http://www.lon-capa.org/~mmp/applist/induct/faraday.htm>

[http://www.vjc.moe.edu.sg/academics/dept/physics\\_dept/applet/fara/faraday\\_demo.htm](http://www.vjc.moe.edu.sg/academics/dept/physics_dept/applet/fara/faraday_demo.htm)

**Generador de corriente continua**

<http://micro.magnet.fsu.edu/electromag/java/generator/dc.html>

**Corriente de Foucault**

<http://micro.magnet.fsu.edu/electromag/java/detector/>

**Corriente alterna**

<http://micro.magnet.fsu.edu/electromag/java/generator/ac.html>

<http://www.mhhe.com/physsci/physical/giambattista/induction/induction.html>

**Motor de corriente alterna**

<http://www.physclips.unsw.edu.au/jw/electricmotors.html#schematics>

## **Tema 6 - FÍSICA ATÓMICA Y NUCLEAR**

### **Generales**

<http://www.physics.ohio-state.edu/~durkin/phys113/>

<http://www.physics.umd.edu/courses/Phys104/einstein/applets.html>

### **Thomson**

[http://galileoandeinstein.physics.virginia.edu/more\\_stuff/Applets/rutherford/rutherford2.html](http://galileoandeinstein.physics.virginia.edu/more_stuff/Applets/rutherford/rutherford2.html)

<http://tamarisco.datsi.fi.upm.es/ASIGNATURAS/FFI/apuntes/camposMagneticos/teoria/applets/estacionarios/thomson/thomson.html>

<http://www.physics.uq.edu.au/people/mcintyre/applets/cathoderaytube/crt.html>

### **Rutherford**

[http://galileo.phys.virginia.edu/classes/109N/more\\_stuff/Applets/rutherford/rutherford.html](http://galileo.phys.virginia.edu/classes/109N/more_stuff/Applets/rutherford/rutherford.html)

<http://micro.magnet.fsu.edu/electromag/java/rutherford/>

<http://www.nat.vu.nl/~pwgroen/sdm/hyper/anim/baan.html>

<http://www.sothis2005.org/atomtic/41.htm>

<http://www.sc.ehu.es/sbweb/fisica/cuantica/rutherford/rutherford.html#Actividades%20a%20realizar>

### **Núcleos estables:**

<http://www.lon-capa.org/~mmp/kap30/Nuclear/nuc.htm>

### **Series radiactivas**

[http://www.walter-fendt.de/ph14s/decayseries\\_s.htm](http://www.walter-fendt.de/ph14s/decayseries_s.htm)

<http://www.eserc.stonybrook.edu/Projectjava/radiation/>

### **Ley de la desintegración radiactiva**

[http://www.walter-fendt.de/ph14s/lawdecay\\_s.htm](http://www.walter-fendt.de/ph14s/lawdecay_s.htm)

<http://www.lon-capa.org/~mmp/applist/decay/decay.htm>

[http://www.colorado.edu/physics/2000/isotopes/radioactive\\_decay3.html](http://www.colorado.edu/physics/2000/isotopes/radioactive_decay3.html)

<http://www.eserc.stonybrook.edu/Projectjava/radiation/>

<http://lectureonline.cl.msu.edu/~mmp/applist/decay/decay.htm>

## **REACCIONES NUCLEARES**

### **Fisión nuclear**

<http://library.thinkquest.org/17940/texts/java/Reaction.html>

[http://library.thinkquest.org/17940/texts/fission\\_power/fission\\_power.html](http://library.thinkquest.org/17940/texts/fission_power/fission_power.html)

<http://www.lon-capa.org/~mmp/applist/chain/chain.htm>

<http://iesfgcza.educa.aragon.es/depart/fisicaquimica/fisicasegundo/fimode.htm>

### **Bomba atómica**

<http://www.youtube.com/watch?v=jWUuKQGei2k>

### **Reactores nucleares**

[http://www.polymtl.ca/nucleaire/en/EnLigne/page\\_applet.php](http://www.polymtl.ca/nucleaire/en/EnLigne/page_applet.php)

<http://www.ida.liu.se/~her/npp/demo.html>

### **Fusión nuclear**

[http://www.visionlearning.com/library/flash\\_viewer.php?oid=2747](http://www.visionlearning.com/library/flash_viewer.php?oid=2747)

<http://www.fusion.org.uk/info/reaction.htm>

## **Física de partículas**

**La aventura de las partículas:** <http://particleadventure.org/>

**Qarks:** <http://www.lon-capa.org/~mmp/applist/q/q.htm>

**El modelo standard:** [http://www.cpepweb.org/cpep\\_sm\\_large.html](http://www.cpepweb.org/cpep_sm_large.html)

## **Espectros**

<http://www.phys.hawaii.edu/~teb/optics/java/atomphoton/index.html>

<http://astro.u-strasbg.fr/~koppen/discharge/>

<http://phys.educ.ksu.edu/vqm/html/emission.html>

<http://webphysics.davidson.edu/Applets/spectrum/default.html>

<http://www.lon-capa.org/~mmp/applist/Spectrum/s.htm>

<http://jersey.uoregon.edu/vlab/elements/Elements.html>

## **Bohr**

<http://lectureonline.cl.msu.edu/~mmp/kap29/Bohr/app.htm>

## **Cuerpo negro**

<http://www.lon-capa.org/~mmp/applist/blackbody/black.htm>

[http://webphysics.davidson.edu/alumni/MiLee/java/bb\\_mjl.ht](http://webphysics.davidson.edu/alumni/MiLee/java/bb_mjl.ht)

## **Efecto fotoelectrico**

<http://www.lon-capa.org/~mmp/kap28/PhotoEffect/photo.htm>

<http://www.ifae.es/xec/phot2.html>

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?topic=342.0>

[http://teleformacion.edu.aytolacoruna.es/FISICA/document/fisicaInteractiva/Ef\\_Fotoe-lectrico/Applets\\_Fendt/photoeffect.htm](http://teleformacion.edu.aytolacoruna.es/FISICA/document/fisicaInteractiva/Ef_Fotoe-lectrico/Applets_Fendt/photoeffect.htm)

[www.vicphysics.org/links/applets](http://www.vicphysics.org/links/applets)

[www.vicphysics.org/links/applets](http://www.vicphysics.org/links/applets)

## **EFEECTO FOTOELÉCTRICO**

[http://www.educaplus.org/index.php?option=com\\_content&task=view&id=61&Itemid=33](http://www.educaplus.org/index.php?option=com_content&task=view&id=61&Itemid=33)

[http://www.walter-fendt.de/ph11s/photoeffect\\_s.htm](http://www.walter-fendt.de/ph11s/photoeffect_s.htm)

<http://www.lon-capa.org/~mmp/kap28/PhotoEffect/photo.htm>

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?topic=342.0>

<http://physics.ham.muohio.edu/peffect98/>

## **Tema 8 - ENERGÍA EÓLICA**

**Bastante completo. Describe toda la tecnología de aerogeneradores:**

<http://www.windpower.org/es/tour/>

**Windbelt:** <http://www.popularmechanics.com/technology/industry/4224763.html>

**Aerogeneradores baratos:** [http://www.tiendaelektron.com/catalog/product\\_info.php?products\\_id=473](http://www.tiendaelektron.com/catalog/product_info.php?products_id=473)

<http://www.dan-cas.com/oscommerce/index.php/cPath/21?osCsid=dc1f64e79f0daa450d854b19863e4cb6>

## Tema 9 - ÓPTICA

### G1.1 MEDIDA DE LA VELOCIDAD DE LA LUS (MICHELSON)

<http://adsabs.harvard.edu/full/1927ApJ....65....1M>

[http://www.oisc.net/Speed\\_of\\_Light.htm](http://www.oisc.net/Speed_of_Light.htm)

<http://articles.adsabs.harvard.edu//full/1927ApJ....65....1M/0000004.000.html>

### G1.1 ONDAS <http://id.mind.net/~zona/mstm/physics/waves/introduction/introductionWaves.html>

### G1.1 ONDAS ELECTROMAGNÉTICAS

<http://micro.magnet.fsu.edu/primer/java/electromagnetic/index.html>

<http://micro.magnet.fsu.edu/primer/java/wavebasics/index.html>

### G1.1 POLARIZACIÓN

[http://www.colorado.edu/physics/2000/polarization/molecular\\_view.html](http://www.colorado.edu/physics/2000/polarization/molecular_view.html)

<http://lectureonline.cl.msu.edu/~mmp/kap24/polarizers/Polarizer.htm>

### G1.2 ESPECTRO DEL CUERPO NEGRO

<http://www.mi.infm.it/manini/dida/BlackBody.html>

### G1.2 ESPECTRO ELECTROMAGNÉTICO [http://www.lon-](http://www.lon-capa.org/~mmp/applist/Spectrum/s.htm)

[capa.org/~mmp/applist/Spectrum/s.htm](http://www.lon-capa.org/~mmp/applist/Spectrum/s.htm)

[http://www.colorado.edu/physics/2000/waves\\_particles/index.html](http://www.colorado.edu/physics/2000/waves_particles/index.html)

### G1.2 RAYOS X <http://www.colorado.edu/physics/2000/xray/index.html>

### G1.2 ESPECTROS [http://www.shokabo.co.jp/sp\\_e/optical/labo/line/line.htm](http://www.shokabo.co.jp/sp_e/optical/labo/line/line.htm)

### G1.3 DISPERSIÓN DE LA LUZ <http://mysite.verizon.net/vzeoacw1/rainbow.html>

### G1.9 LASER <http://www.colorado.edu/physics/2000/lasers/lasers2.html>

<http://physics.uwstout.edu/physapplets/javapm/java/laser/index.html>

<http://web.phys.ksu.edu/vqm/laserweb/Ch-3/F3s5p1.htm>

<http://www.thetech.org/exhibits/online/lasers/Basics/laser.html>

### G2.4 ESPEJO CONVEXO

[http://www.physics.uoguelph.ca/applets/Intro\\_physics/kisalev/java/dmirr/index.html](http://www.physics.uoguelph.ca/applets/Intro_physics/kisalev/java/dmirr/index.html)

#### LENTE CONVERGENTE

[http://www.physics.uoguelph.ca/applets/Intro\\_physics/kisalev/java/clens/index.html](http://www.physics.uoguelph.ca/applets/Intro_physics/kisalev/java/clens/index.html)

#### LENTE DIVERGENTE

[http://www.physics.uoguelph.ca/applets/Intro\\_physics/kisalev/java/dlens/index.html](http://www.physics.uoguelph.ca/applets/Intro_physics/kisalev/java/dlens/index.html)

#### LENTES Y ESPEJOS

<http://webphysics.davidson.edu/applets/optics4/default.html>

**LENTES Y ESPEJOS** <http://www.mtholyoke.edu/~mpeteroso/classes/phys301/geomopti/lenses.html>

#### ECUACIÓN DE LAS LENTES

<http://micro.magnet.fsu.edu/primer/java/components/characteristicrays/index.html>

#### COMBINACIONES DE LENTES

<http://www.lon-capa.org/~mmp/applist/optics/o.htm>

<http://www.phy.ntnu.edu.tw/ntnujava/index.php?>

[PHPSESSID=d5ccbdb4edaae691735c51702daba09f&topic=48.msg297#msg297](http://www.phy.ntnu.edu.tw/ntnujava/index.php?PHPSESSID=d5ccbdb4edaae691735c51702daba09f&topic=48.msg297#msg297)

#### TELESCOPIO

<http://www.astronomynotes.com/telescop/s2.htm#A1.1>

#### DOBLE RENDIJA

<http://surendranath.tripod.com/Applets/Optics/Slits/DoubleSlit/DbISltApplet.html>

<http://www.walter-fendt.de/ph14e/doubleslit.htm>

#### RED DE DIFRACCIÓN

<http://www.physics.uq.edu.au/people/mcintyre/applets/grating/grating.ht>

[http://projects.cbe.ab.ca/sss/science/physics/map\\_north/applets/grating/grating.html](http://projects.cbe.ab.ca/sss/science/physics/map_north/applets/grating/grating.html)

**INTERFERENCIA EN LÁMINAS DELGADAS**

<http://mysite.verizon.net/vzeoacw1/thinfilm.html>

**INTERFERENCIA EN CUÑAS**

[http://pages.physics.cornell.edu/courses/p101-102/\\_RML/RML\\_15a/questions\\_10\\_wedge\\_film.html](http://pages.physics.cornell.edu/courses/p101-102/_RML/RML_15a/questions_10_wedge_film.html)

**HYPERPHYSICS**

<http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html>

## **Tema 16 - TECNOLOGÍA DIGITAL**

### **Codificación en un CD o en un DVD**

<http://www.pccomparativas.com/apunte.php?apunte=6>

[http://es.wikipedia.org/wiki/Disco\\_compacto#Grabaci.C3.B3n\\_por\\_acci.C3.B3n\\_de\\_l.C3.A1ser](http://es.wikipedia.org/wiki/Disco_compacto#Grabaci.C3.B3n_por_acci.C3.B3n_de_l.C3.A1ser)

[http://www.laesieworks.com/digicom/Storage\\_CD.html](http://www.laesieworks.com/digicom/Storage_CD.html)

### **CCD**

#### **Célula fotovoltaica**

[http://www.geocities.com/institutoingefor2/construccion/construccion03/celula\\_fotovolt\\_aica.gif](http://www.geocities.com/institutoingefor2/construccion/construccion03/celula_fotovolt_aica.gif)

[http://sustainable-tech.inf.um.es/generador\\_clip\\_image002.jpg](http://sustainable-tech.inf.um.es/generador_clip_image002.jpg)

#### **CCD, CMOS, escáneres, impresoras etc.**

[http://www.atc.us.es/descargas/Tecnologias\\_para\\_la\\_adquisicion\\_de\\_imagenes\\_\(Bloque2\).pdf](http://www.atc.us.es/descargas/Tecnologias_para_la_adquisicion_de_imagenes_(Bloque2).pdf)

#### **CCV. Color**

[http://www.dpreview.com/learn/?/Glossary/Camera\\_System/sensors\\_01.htm](http://www.dpreview.com/learn/?/Glossary/Camera_System/sensors_01.htm)

**Sensor Foveon:** [http://es.wikipedia.org/wiki/Foveon\\_X3#Principio\\_de\\_funcionamiento](http://es.wikipedia.org/wiki/Foveon_X3#Principio_de_funcionamiento)

**Fotometría CCD** <http://casa.colorado.edu/~keeney/classes/astr3510/ccd/>

## **Tema 16 – RELATIVIDAD**

### **RELATIVIDAD DE GALILEO**

#### **Medida de la velocidad de la luz**

[http://www.physics.nyu.edu/~ts2/Animation/special\\_relativity.html#](http://www.physics.nyu.edu/~ts2/Animation/special_relativity.html#)

[http://www.physics.nyu.edu/~ts2/Animation/speed\\_of\\_light\\_gal.html](http://www.physics.nyu.edu/~ts2/Animation/speed_of_light_gal.html)

[http://www.physics.nyu.edu/~ts2/Animation/speed\\_of\\_light.html](http://www.physics.nyu.edu/~ts2/Animation/speed_of_light.html)

### **MICHELSON-MORLEY**

<http://www.its.caltech.edu/~phys1/java/phys1/Einstein/Einstein.html>

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### **DILATACIÓN DEL TIEMPO**

[http://www.physics.nyu.edu/~ts2/Animation/Time\\_dilation.html](http://www.physics.nyu.edu/~ts2/Animation/Time_dilation.html)

### **CONTRACCIÓN DE LONGITUDES**

#### **SIMULTANEIDAD**

<http://www.physics.nyu.edu/~ts2/Animation/Simultaneity.html>

[http://www.physics.nyu.edu/~ts2/Animation/Moving\\_clocks.html#](http://www.physics.nyu.edu/~ts2/Animation/Moving_clocks.html#)

<http://www.walter-fendt.de/ph14e/timedilation.htm>

<http://physics.ucsc.edu/~snof/Tutorial/index.html>

<http://www.warren->

[wilson.edu/~physics/physics2/SpecRelativityApplet/SpecialRel11.htm](http://www.warren-wilson.edu/~physics/physics2/SpecRelativityApplet/SpecialRel11.htm)

<http://www.cco.caltech.edu/~phys1/java/phys1/Einstein/Einstein.html>

<http://chair.pa.msu.edu/applets/travel/a.htm>