IYA2009 in the high schools of Ticino, Switzerland
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NGC 1300
69 Millionen Lichtjahre

NASA, ESA UND DAS STScI/AURA HUBBLE HERITAGE TEAM

NGC 1300
69 millions d'années-lumière
Le télescope spatial Hubble capture une succession de lumière stellaire, de gaz resplendissant et d'obsques nuages de poussière interstellaire dans cette image de la galaxie barrée NGC 1300. Cette galaxie est considérée comme le prototype des galaxies barrées. La principale différence par rapport aux galaxies non barrées réside en ce que les bras spiraux de la galaxie ne s'enroulent pas jusqu'au centre, mais se joignent aux deux extrémités d'une barre droite d'étoiles qui contient le noyau de la galaxie au centre.

NASA, ESA ET LE TEAM HUBBLE HERITAGE STScI/AURA

NGC 1300
69 milioni di anni luce
In questa immagine della galassia sbarrata NGC 1300 il Telescopio spaziale Hubble cattura un susseguirsi di luce stellare, gas splendente e nubi scure di polvere interstellare. Questa galassia è considerata come il prototipo delle galassie sbarrate. La differenza con le altre galassie (non sbarrate) è principalmente determinata dal fatto che le braccia spiral di galassia non si svolgono fino al centro, ma si conniugano alle
in high schools
FROM EARTH TO THE Universe
High school of Lugano 1
High school of Lugano 2
High school of Lugano 2
Astronomy in the high school of Lugano 2
Astronomy in the high school of Lugano 2

- Astrobiology: The origins of life in the Universe
Astronomy in the high school of Lugano 2

• Astrobiology: The origins of life in the Universe

• Special class for FAM, 1 week (beginning of 4th grade) and observations.
Astronomy in the high school of Lugano 2

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- Optional Class for all (1 hour per week).
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- Diploma work (3d and 4th grade). Example: 2008-2009
Astronomy in the high school of Lugano 2

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- Refresher course for teachers (astrobiology and cosmology).
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- Conferences for students and teachers.
Astronomy in high school: which class?
Astronomy in high school: which class?

- Physics: specific education in astronomy? refresher class!
Astronomy in high school: which class?

- Physics: specific education in astronomy? refresher class!
- Geography.
Astronomy in high school: which class?

- Physics: specific education in astronomy? refresher class!
- Geography.
- Philosophy: history of science (Galileo, Copernicus, Newton)
Astronomy in high school: which class?

- Physics: specific education in astronomy? refresher class!

- Geography.

- Philosophy: history of science (Galileo, Copernicus, Newton)

- Mathematics: scientific class (in collaboration with a physics teacher)
This website contains several astronomy resources related to lectures and conferences I give at my high-school.

- During the second year (scientific section), part of the physics class is dedicated to astronomy: story of astronomy, Newton's law of gravitation, circular motion, planet motion in the Solar System, Kepler's laws.

- To third year students (non-scientific section), I teach a class of astrobiology containing a lot of astronomy.

- For second and third year students, usually in March there is an entire week dedicated to a special theme, proposed by students and teachers. Students can choose amongst a wide variety of subjects, going from the Making of Chocolate, cross-country skiing to the creation of a comic book. Like last year, I will be in charge of the Astronomy week (see Settimana approfondimento).

- The high-school diploma (LAM) is another opportunity to study astronomy at Lilu2. In 2008, for their LAM two of my students reduced some deep VLT spectra of elliptical galaxies.

- During the first week of school, together with Vito Antonelli and Francesco Fumagalli, we organize special lectures on astronomy and elementary particles for the fourth
Astronomy in high school: future prospects

Telescope of 40 cm in Carona, near Lugano
Astronomy in high school: future prospects

Telescope of 40 cm in Carona, near Lugano
Astronomy in high school: future prospects

2d grade class in an “astronomical context”:

Circular motion, gravitation law, history of astronomy, optics, wave, spectrum, telescope, ...