## **PHYSICS EDUCATION**

## **CONTENIDO**

## VOLUME 46 No. 1, JANUARY 2011

1	NEWS
	FRONTLINE
12	Videos determine the Moon's g. JR Persson and JE Hagen.
13	The mini dark room from Holywell High. Frank Lane.
14	Verifying magnetic force on a conductor.  Salvatore Ganci.
17	The Eratosthenes space project.  A Artigas, A Costa, C H Eyraud, A Perez-Verde and R M Ros.
19	Showing $F = BIL$ using video analysis. Leon Smith.
	FEATURES
22	The retarding force on a fan-cart reversing direction.  Tralok S Aurora and Bernard J Brunner.
29	Experiments with a varicap.  Yaakov Kraftmakher.
33	Studying springs in series using a single spring.  Juan D Serna and Amitabh Joshi.
41	A variant of Young's double slit experiment for educational purposes. <i>François Hénault and Alain Spang</i> .
45	LHC: the emptiest space in the solar system. <i>Xabier Cid-Vidal and Ramon Cid.</i>
50	Testing the fracture behavior of chocolate.  L B Parsons and R Goodall.
57	Physics experiments with Nintendo Wii controllers.  Martyn D Wheeler.

- The infrared thermometer in school science: teaching physics with modern technologies.

  \*\*Raimund Girwidz and Gren Ireson.\*\*
- 73 Steps toward learning mechanics using fan cart video demonstrations. *Mark Lattery*.
- Patterns in nature: challenging secondary students to learn about physics laws.

  \*Keith S Taber.\*
- 90 The Swift Turbidity Marker. *Ahmad Fairuz Omar and Mohd Zubir MatJafri*.
- 97 A heuristic approach to the lens equation. *Robert J Whitaker*.
- Universal 'imaginary closed circuit method' and formula for determination of induced emf/current.

  Dattatraya Balaram Atram.
- 108 Contents: People and Reviews
- 121 End Results

## **COVER PICTURE:**

David Smith reports from CERN on national initiatives to involve teachers and schools in the collection and analysis of cosmic-ray data. p 2.