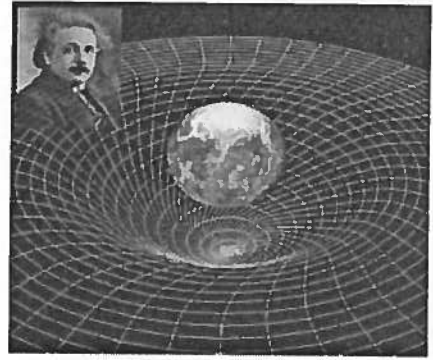




WEEKLY CALENDAR

5 December 2005

Department of Physics and Astronomy
202 Nicholson Hall
Louisiana State University and A&M College
Baton Rouge, Louisiana 70803-4001
Tel: 225-578-2261 / Fax: 225-578-5855
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General Seminar

3:40PM / Thursday, 8 December 2005 / Room 109, Nicholson Hall

Host: Dr. Jim Matthews

[Refreshments served at 3:15 PM in Room 229, Nicholson Hall]

High Spectral Resolution Studies of Open Clusters with Hectochelle

Andrew Szentgyorgyi, PhD
Harvard-SmithCenter for Astrophysics

Hectochelle, commissioned at the MMT in Dec 2003, is fiber-fed, multiobject echelle spectrograph with a spectral resolution $R = 32,000$ - $34,000$ that collects 240 simultaneous spectra. We will provide a technical description of the Hectochelle and supporting facilities, hopefully elucidating the broad scientific capabilities of this new instrument and provoking new ideas for scientific applications of Hectochelle. We further describe several scientific programs, especially surveys of young, open clusters in progress utilizing the Hectochelle to illustrate these capabilities and discuss plans to optimize and enhance the power of Hectochelle in the future.

Publications

"Geometrically motivated hyperbolic coordinate conditions for numerical relativity: Analysis, issues and implementations." Carles Bona, Luis Lehner and Carlos Palenzuela-Luque. *Phys. Rev. D.*, V. 72, N10 (2005).

Reminder

There will be a Faculty Meeting on Tuesday, December 6th
at 3:15pm in Room 109 Nicholson.
If you are unable to attend, please remember to assign your proxy.