Variable Stars Observer Bulletin #4/Jan-Feb 2014



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the way. The bulletin is also available for **free in PDF format**.

The bulletin is for amateurs who are interested in variable stars science.

There both simplified articles on the most contemporary research and publications

from those who made an advanced progress in the field can be read.

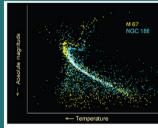
Authors making research in the field of variable stars are welcome to publish their articles in the following issues! Should you have an article ready for sharing with the community, just contact us, so we can schedule it.

Pulsating variable stars and the Hertzsprung-Russell diagram

Studying intrinsically pulsating variable stars plays a very important role in stellar evolution understanding. The Hertzsprung-Russell diagram is a powerful tool to track which stage of stellar life is represen-ted by a particular type of variable stars.

Let's see what major pulsating variable star types are and learn about their place on the H-R diagram. This approach is very useful, as it also allows to make a decision about a variability type of a star for which the properties are known partially.

Read more



H-R diagram for two open clusters (M67 and NGC 188), showing the main sequence turn-off at different ages. Image credit: Wikipedia

Articles / Publications



Wolf-Rayet stars: extremely hot, luminous and massive

hy Ivan Adamir

Stellar associations: a variable stars
nursery • by Valery Tsehmeystrenko

The nearby eclipsing stellar system **ŏ Velorum** ► by Ivan Adamin

Carbon in the sky: a few remarkable carbon stars & by Ivan Adamin

What are the R Coronae Borealis stars?

► by Ivan Adamin

The FU Orionis phenomenon

by Ivan Adamin

Twenty New W Ursae Majoris-type Eclipsing Binaries from the Catalina Sky

Survey ► by Stefan Hummerich, Klaus Bernhard, Gregor Srdoc

Current Moon Phase



First Quarter Moon Age: 7.73 days Illumination: 54% Moon in Leo

Run Observation Calculator / Planner

Current Issue (#4)



Issue #4 January-February 2014

Free Online
PDF Bulletin on
Variable Stars

Amateurs' Guide to Variable Stars

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BL Lacertae objects - Blazars

□ by Ivan Adamin

Discovery of a Second Radial Mode in the High Amplitude Delta Scuti Star NSVS 10590484 (GSC 01489-00914)

by Klaus Bernhard, Stefan Hummerich

Stellar associations: a variable stars nursery • by Valery Tsehmeystrenko

Notable long-period eclipsing binaries. Part I. • by Ivan Adamin

Pulsating variable stars and the Hertzsprung-Russell diagram

by Siarhey Hadon, Ivan Adamin

VV Cephei: an extraordinary binary system ► by Ivan Adamin

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VS-COMPAS Project: variable stars research and data mining.

More at http://vs-compas.belastro.net

amateurs' guide to variable stars science

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VS-COMPAS Project: variable stars research and data mining.

More at http://vs-compas.belastro.net

Variable Stars Observer Bulletin is all about variable stars science. It is made by amateurs and for amateurs. Here simplified contemporary data about different aspects of variable stars research is published.

The bulletin is available as a free PDF at VS-COMPAS project's website: http://www.vs-compas.belastro.net/bulletin

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The Crab Nebula (M1, NGC 1952) Minsk, Belarus (Spring 2014)

Image courtesy of Andrei Ioda © 2014

