CO5BOLD Workshop 2012

Heidelberg, October 1-3, 2012

Scientific Organising Committee

E. Caffau (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany),
B. Freytag (CRAL, UMR 5574, CNRS, Université de Lyon, École Normale Supérieure de Lyon - France)
H.-G. Ludwig (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany),
L. Sbordone (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany),
M. Steffen (AIP, Leibniz-Institut für Astrophysik Potsdam - Germany)

Local Organising Committee

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H.-G. Ludwig (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany),
L. Sbordone (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany),
A. Thygesen (LSW, Zentrum für Astronomie der Universität Heidelberg - Germany)

Sponsorship

Sonderforschungsbereich SFB 881 “The Milky Way System” (subproject A4) of the German Research Foundation (DFG)
LSW, Gliese Fellowship

FOREWORD

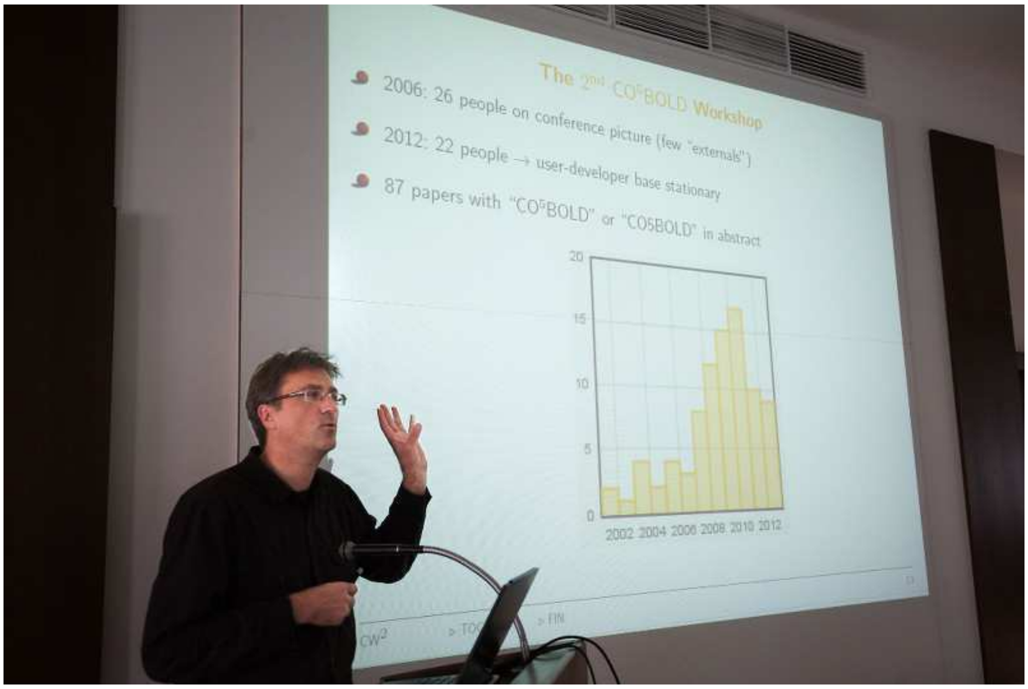
CO^{5}BOLD (COnservative COde for the COmputation of COmpressible COnvection in a BOx of L Dimensions, L=2,3) is a radiation hydrodynamics code designed for modelling the convective layers and atmospheres of stars. The atmosphere of a star requires a complex modelling since the dynamics and state of the stellar gas are tightly coupled to the electromagnetic radiation. This involves a realistic equation of state including ionisation and formation and dissociation of molecules.

After 6 years from the first CO^{5}BOLD workshop, that took place in Freiburg, Germany, it was time to gather developers and users of CO^{5}BOLD again, and to provide a forum to present and discuss results obtained with the code.

It was also a good opportunity to celebrate the 50th birthday of Hans-Günter Ludwig, one of the developer of CO^{5}BOLD code and a very active member of the CO^{5}BOLD community.

These proceedings record the results that have been presented at the workshop. At the third CO^{5}BOLD workshop, they will allow to easily track the improvements of the CO^{5}BOLD code, its related spectral synthesis, and the progress in the physical description achieved by the CO^{5}BOLD models.

E. Caffau and L. Sbordone

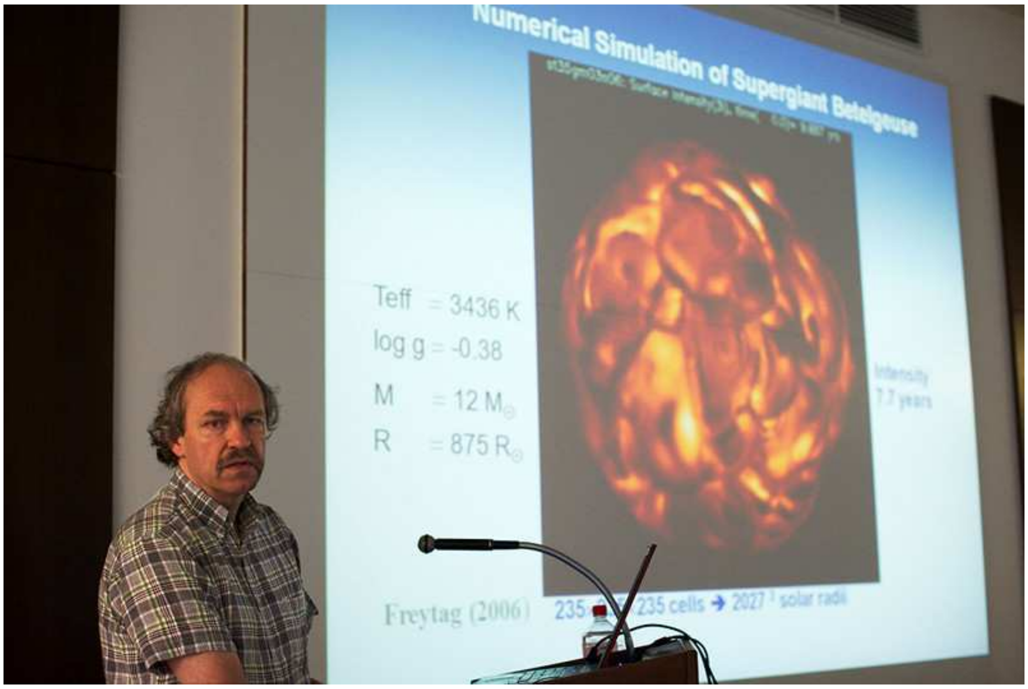


Hans-Günter Ludwig


Conference picture


The conference room

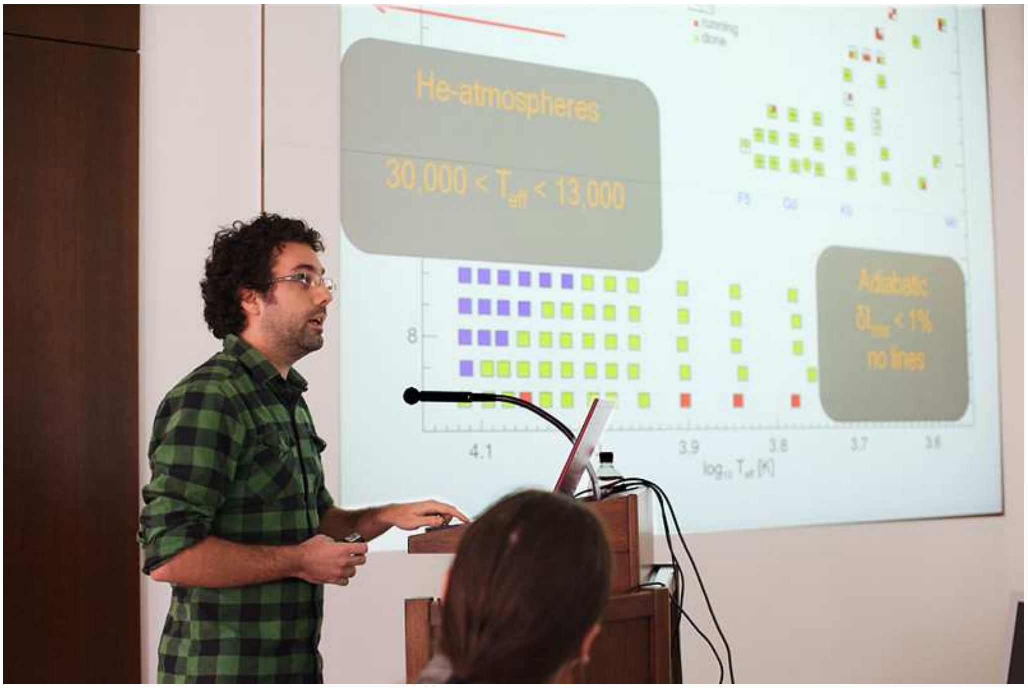
Bernd Freytag



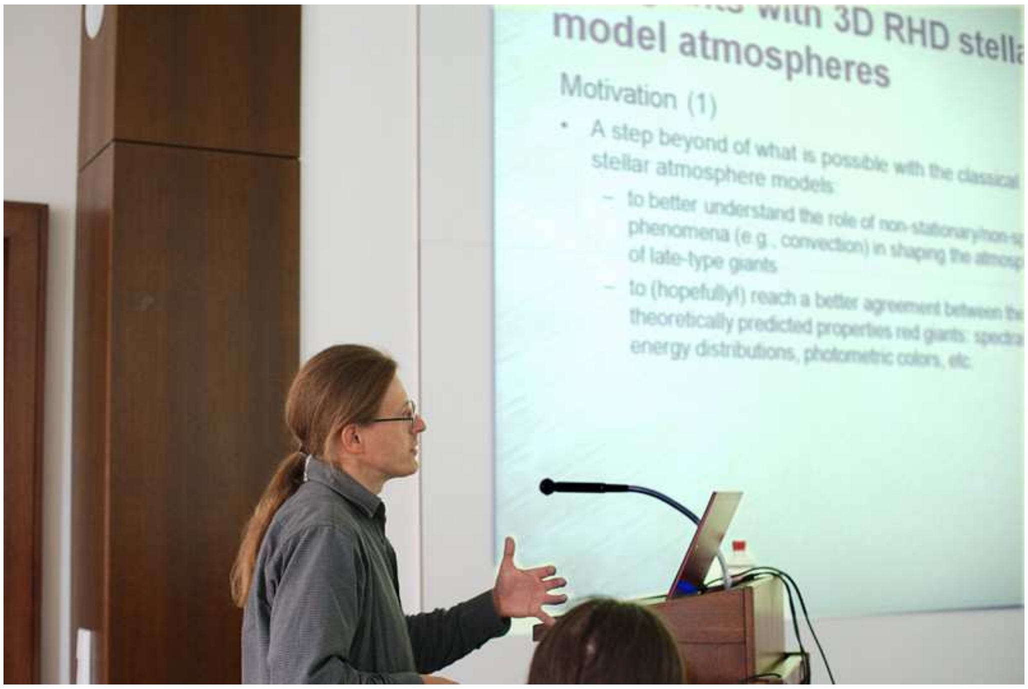
Matthias Steffen

Lyudmila Mashonkina

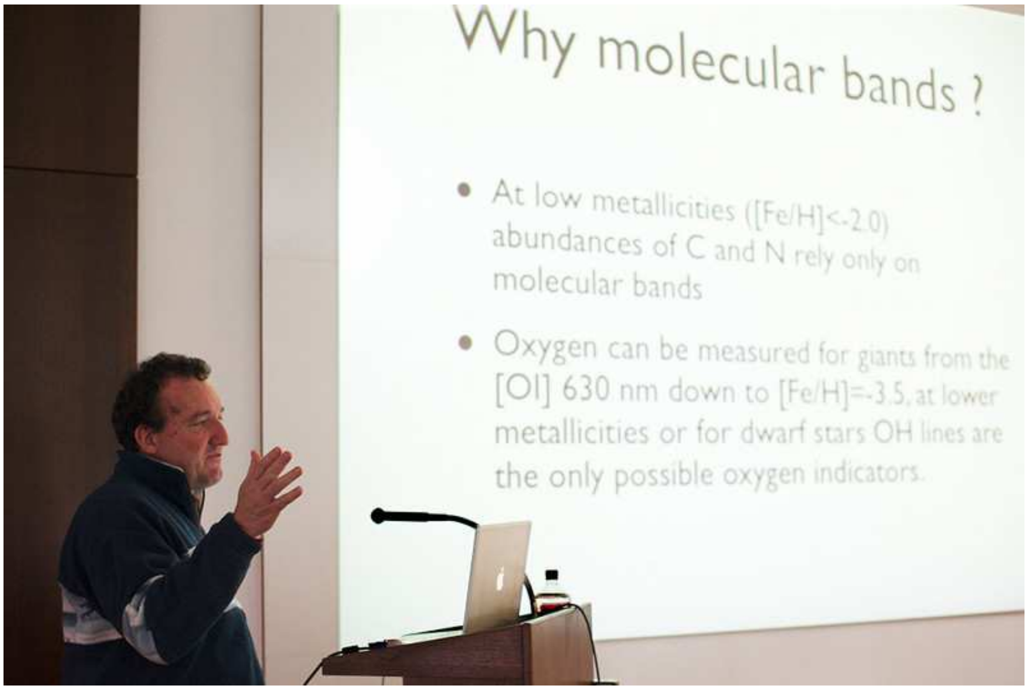
Sonia Duffau and Elisabetta Caffau



Pier-Emmanuel Tremblay



Arunas Kučinskas



Piercarlo Bonifacio

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Oskar Steiner

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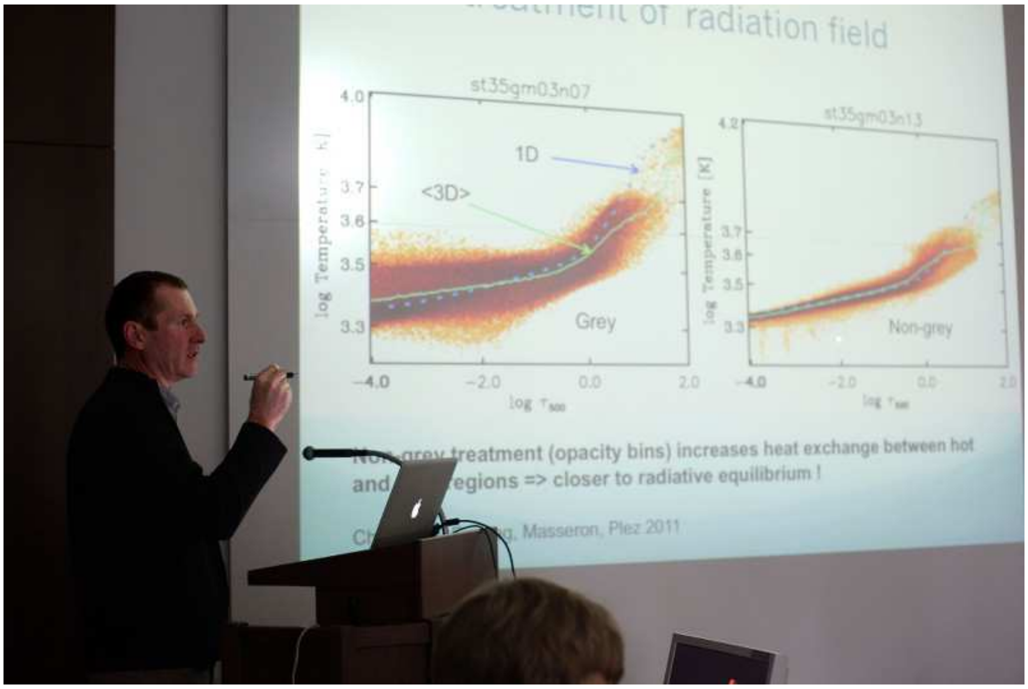
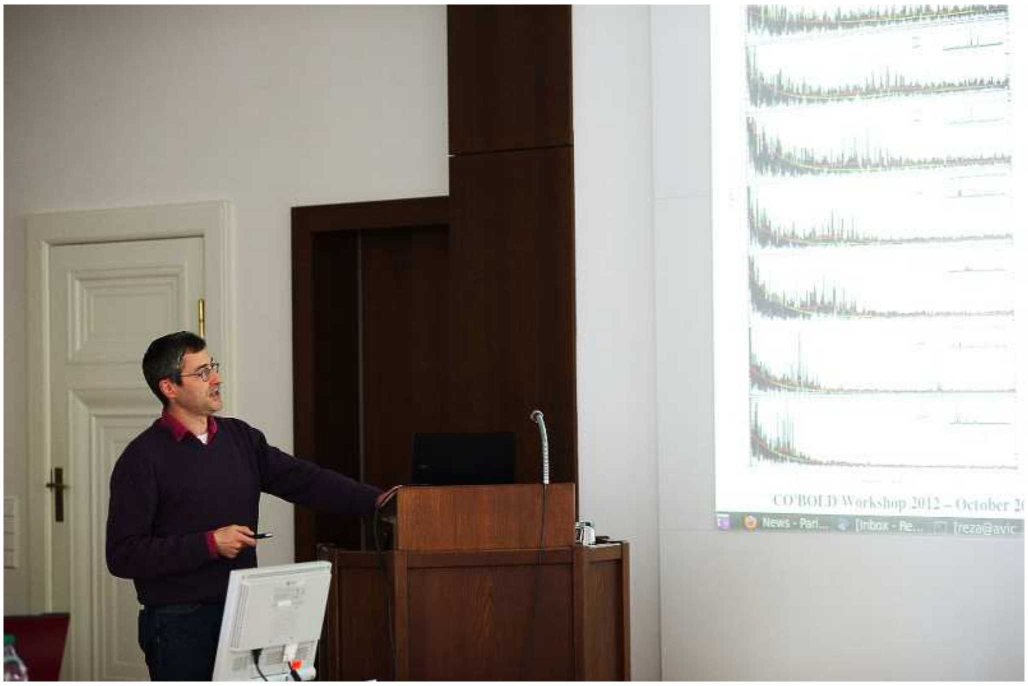


Bertrand Plez



Reza Samadi

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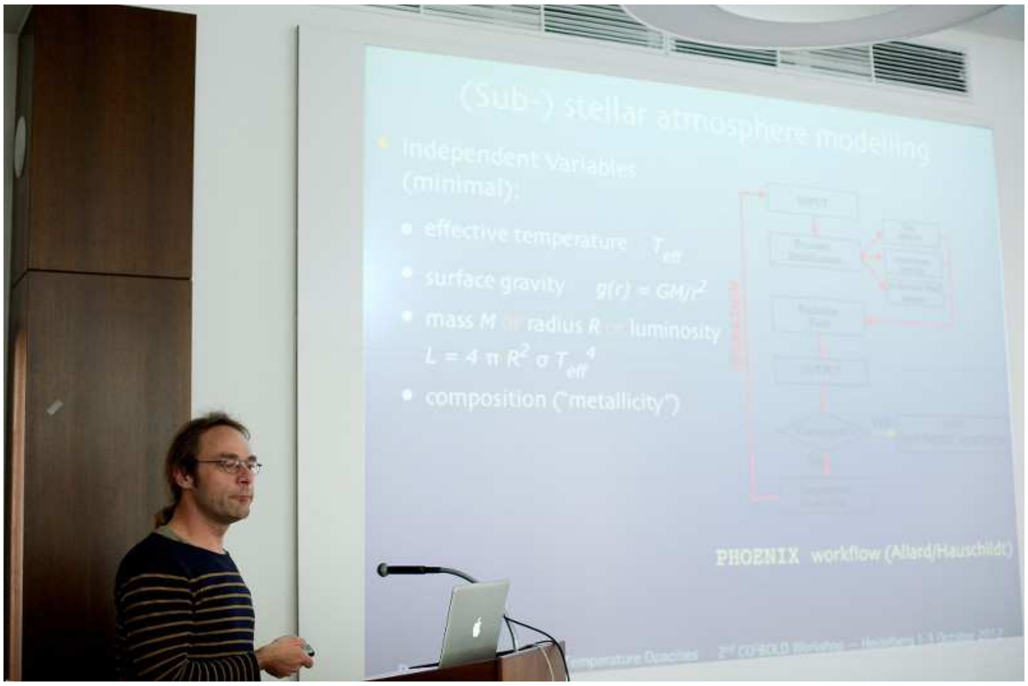

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Thomas Ayres and Anders Thygesen

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Arunas Kučinskas and Piercarlo Bonifacio


Thomas Strauss, Sven Wedemeyer-Böhm, and Paul Kaspar Rajaguru

Oskar Steiner, Paul Kaspar Rajaguru, Piercarlo Bonifacio, Reza Samadi, and Matthias Steffen

Thomas Strauss and Bernd Freytag

Reza Samadi, Derek Homeier, and Matthias Steffen

Matthias Steffen, Bertrand Plez, and Arunas Kučinskas

Thomas Ayres, Sven Wedemeyer-Böhm, Hans-Günter Ludwig, and Oskar Steiner

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