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Dr Herve LAMY

Oulu
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COST Action MP1104
Short Term Scientific Mission
Reference Code: COST-STSM-ECOST-STSM-MP1104-221112-024233
Beneficiary: Valery Suleimanov (Suleymanov), Tübingen University, Germany
Host: Juri Poutanen, Department of Physics, University of Oulu, Finland
Period: 22/11/2012 - 05/12/2012

Dear Dr. Lamy,

Dr. Valery Suleimanov has visited University of Oulu for the planned period of two weeks. We have worked on the influence of polarization on determination of the neutron star (NS) masses and radii from the X-ray burst spectral evolution. We have found that polarization can be significant for rapidly rotating NSs, which are not spherically symmetric because of rotation. We have then developed tools to model spectral formation from rapidly spinning NSs. These results will have profound implications for the determination of the NS parameters using thermal emission from X-ray bursts.

The visit of Dr. Suleimanov was extremely productive and I believe that it will lead to at least one refereed paper. More exchange visits are being planned to continue the collaboration.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Juri Poutanen'.

Juri Poutanen
Professor of Astronomy
Head of the Astronomy Division