



**ΓΕΝΙΚΟ ΣΕΜΙΝΑΡΙΟ ΤΜΗΜΑΤΟΣ ΦΥΣΙΚΗΣ**

**PHYSICS COLLOQUIUM**

**Thursday, 1 December 2011**

**17:00 -18:00**

**3<sup>rd</sup> Floor Seminar Room**

**“Looking back at ROSAT  
- A new view of the sky in X-rays”**

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**Abstract**

The X-ray observatory ROSAT, a German-led mission with US and UK participation was operational from June 1990 until December 1998. Soon after launch it performed during half a year the first all-sky survey in X-rays with an imaging telescope resulting in the discovery of  $\sim 125\,000$  X-ray sources - an increase by more than a factor of hundred compared with previous surveys. In total eight years were devoted to detailed observations of X-ray sources in which G/US/UK scientists and guest observers from 21 other countries participated. The scientific harvest of ROSAT comprises almost all fields of modern astrophysics – from solar system objects out to clusters of galaxies and quasars at cosmological distances. After a short description of ROSAT and its instruments I will present a personal selection of discoveries and highlights of this mission.