The HEXA-NEP survey: a new extragalactic survey centered on the North Ecliptic Pole.

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Abstract

Our current knowledge of the hard X-ray extragalactic sky (> 20keV) consists of about 2000 sources, mainly detected by INTEGRAL/IBIS and Swift/BAT. These instruments provided the largest hard X-ray surveys to date, exploiting more than 20 years of exposure; although they covered the sky in different ways, they have proven to be fully complementary to each other. In this talk, I will present preliminary results of an ongoing pilot project aimed at producing a combined IBIS and BAT all-sky survey in the 18–60 keV energy range: the HEXA (Hard X-ray All-sky) survey, focusing on a large area of the sky centred on the North Ecliptic Pole. I will present the first results of this partial survey, highlighting their scientific impact achieved thanks to the treasure trove of INTEGRAL and Swift data.

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