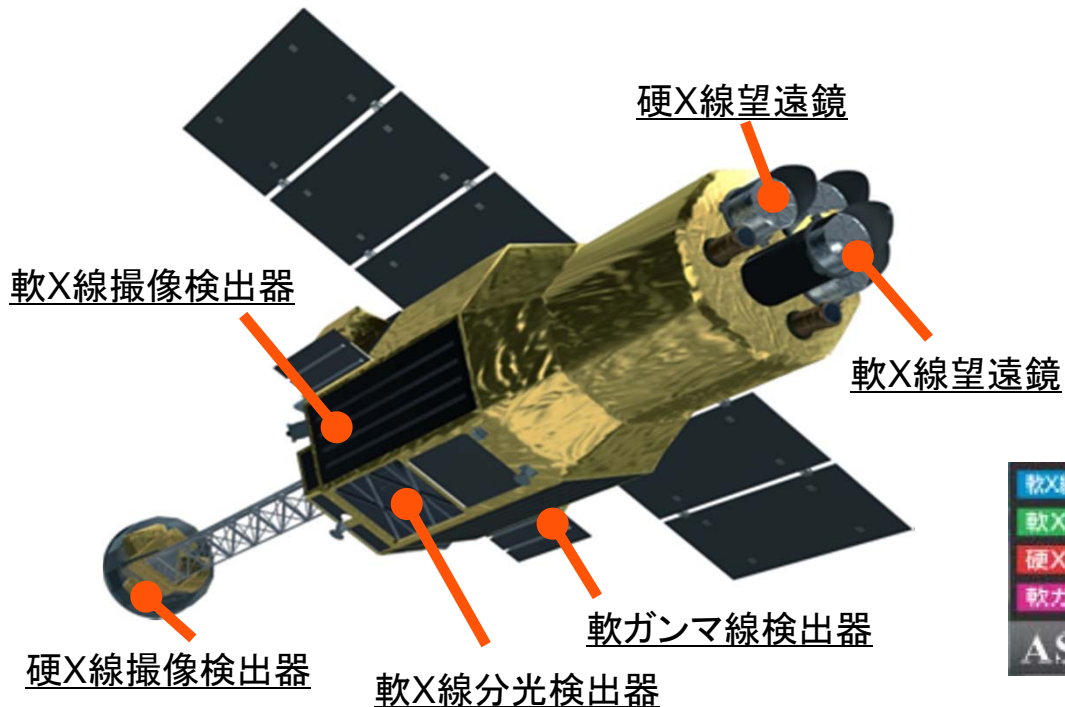


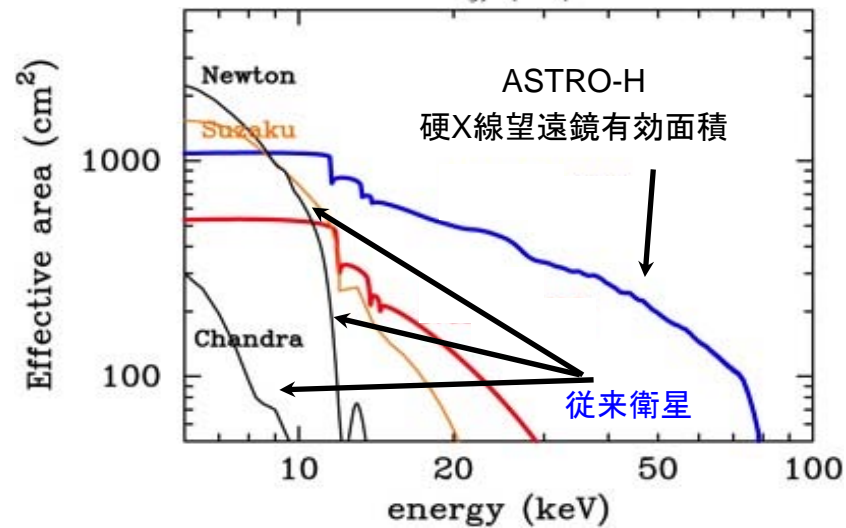
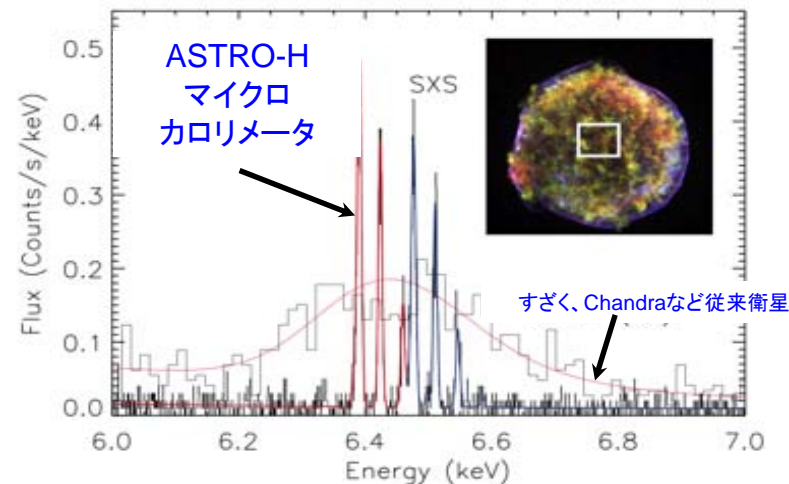
ASTRO-Hの特徴

世界最高レベルの観測装置

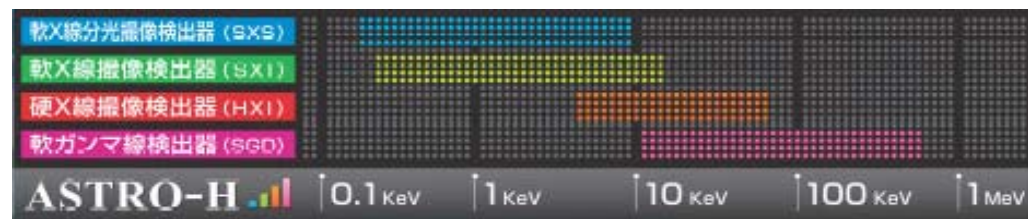
本研究では、マイクロカロリメータという新しい極低温動作X線センサーで宇宙の動的な進化を直接観測し、さらに国産ナノ技術による「多層膜硬X線望遠鏡」と世界に誇る日本の半導体技術が生み出した新しい高効率半導体素子による、最先端で独自の広帯域の検出器を合わせることで、宇宙の極限環境における未知の過程を明らかにする。これまで見ることでできなかった、宇宙の進化の新たな側面が解明されることで、世界最高レベルの日本のX線天文学が飛躍的に発展し、宇宙物理学に大きなインパクトを与え、我が国のプレゼンスの向上につながる。



ASTRO-Hによる高温ガスからの予想スペクトル

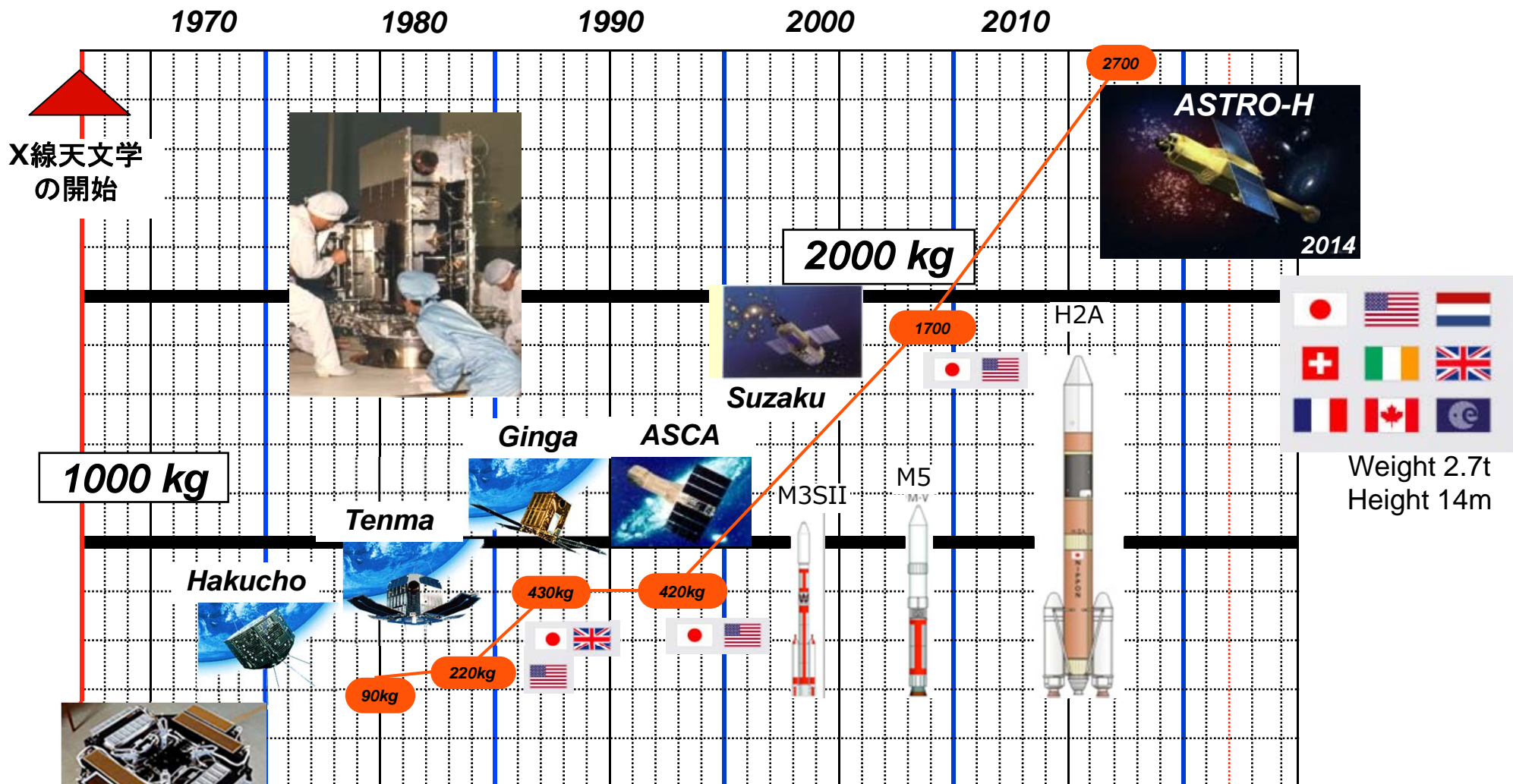


ASTRO-Hは4桁にもわたるエネルギー範囲を史上最高の感度でとらえる



ASTRO-H: 国際X線天文衛星

(補足資料)



日本はロケットの大型化と共に、より高度な観測装置を積んだ、独自のX線天文衛星を実現し、より大きな科学成果をあげてきた

ASTRO-Hの参加機関

(補足資料)

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