

Particle accelerators powered by supermassive black holes



Artist impression of a blazar

Credit: NASA, Pablo Garcia

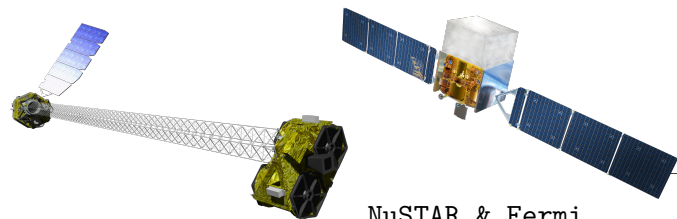
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Why is it interesting?

Relativistic jets in space are among the most powerful accelerators in the Universe

We can detect their high-energy emission (+ possibly neutrinos) across time and space

Multiwavelength observations can reveal the structure in extreme environments



NuSTAR & Fermi
Credit: NASA

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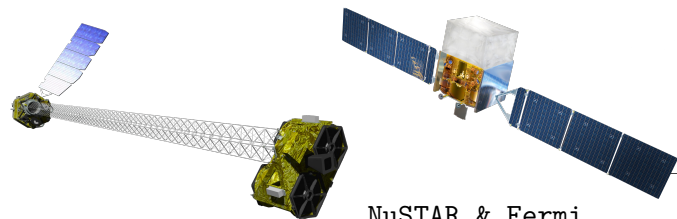
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What do we do?

Data acquisition & physical modeling of data sets covering full electromagnetic spectrum

Search for most distant blazars & evolution studies

Science preparation for new & powerful observatory to reveal the TeV gamma-ray sky at unprecedented resolution



Artist impression of the Southern CTAO array.
Credit: CTAO