

## **Study of MeV continuum from Cas A with COMPTEL**

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Supernova remnants are likely sources of cosmic rays. Energetic particles accelerated in these objects should provide a variety of continuum emission signatures over the entire electromagnetic spectrum. Models predict that electron synchrotron emission may be detected from radio to hard X-ray energies, while at higher energies, in the MeV regime and above, the same electrons are expected to be visible through bremsstrahlung. The hard X-ray continuum emission from the Cas A supernova remnant indicates in fact the presence of high-energy electrons and makes it an interesting candidate for study at MeV energies.

We have analysed COMPTEL data for evidence of continuum emission in addition to the previously detected  $^{44}\text{Ti}$  line. The implications of the results in constraining models of the emission will be discussed.