



Contribution ID: 259

Type: **Invited**

Accelerator Mass Spectrometry and Nuclear Astrophysics

Tuesday 27 June 2006 13:00 (30 minutes)

Accelerator Mass Spectrometry (AMS) is an extremely sensitive method for determination of rare ions. Besides ongoing applications in quite different scientific fields it is still a rather new tool in nuclear astrophysics.

In this presentation I will show the reasons for this unique sensitivity and where are the limits: from the table top machine too a large facility.

Applications in nuclear astrophysics range from direct determination of nuclear synthesis in the past until measurements of relevant cross sections. Examples of recent and also ongoing measurements will be discussed.

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Session Classification: 6 Evidence of nucleosynthesis in stars and presolar grains

Track Classification: Experiments in nuclear astrophysics