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V E R A D I S K U S S I O N S R U N D E

von

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**Studying nuclear reactions in the terminal stripper
of VERA: First results of $^{12}\text{C}(p,\gamma)^{13}\text{N}$**

We want to discuss first results of a new type of experiment performed last week at VERA. $^{12}\text{C}^-$ ions are injected into the 3-MV tandem accelerator inducing nuclear reactions in the terminal stripper canal filled with H_2 gas. The radiative capture of protons in ^{12}C produce ^{13}N nuclei, which are identified on the high-energy end of the VERA AMS system. The preliminary results and possible implications on astrophysically relevant reactions such as $^{12}\text{C}(p,\gamma)^{13}\text{N}$ and $^{13}\text{C}(p,\gamma)^{14}\text{N}$ will be discussed.

Dienstag, 29. Juli 2003, 14 Uhr c.t.

**1090 Wien, Boltzmannngasse 3/ 2. Stock,
Seminarraum von IMEP**

P. Hille

W. Kutschera