AU Al-Khalili, A, Danared, H, Larsson, M, Le Padellec, A, Peverall, R, Rosen, S, Semaniak, J, af Ugglas, M, Vikor, L, van der Zande, PJ
TI Dissociative recombination of (HeH+)-He-3: comparison of spectra obtained with 100, 10 and 1 meV temperature electron beams
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AB The heavy-ion storage ring CRYRING at the Manne Siegbahn Laboratory at Stockholm University has been used for the study of dissociative recombination of (HeH+)-He-3. The new adiabatically expanded electron beam at CRYRING, which is achieved by means of a superconducting magnet, was used. The electron-beam expansion factor of 100 gave a transverse electron temperature of about 1 meV. This allowed the observation of several new resonances in the recombination cross-section.
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