Abstract for Poster:

Positronium Scattering Cross-Sections

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The results of recent investigations of Positronium interactions with simple atoms and molecules will be presented.

The total cross section σ_T for orthopositronium (o-Ps) scattering from various molecular (i.e. N_2 [1], H_2O [2], O_2 [2]) and noble (i.e. Ne [3] and Xe [3]) gases have been measured using a variable energy o-Ps beam in the range 10-250eV. These results will be presented at the workshop and compared with results from different targets [4,5] and corresponding cross- sections of electrons and positrons. Preliminary results for Xe are shown below.

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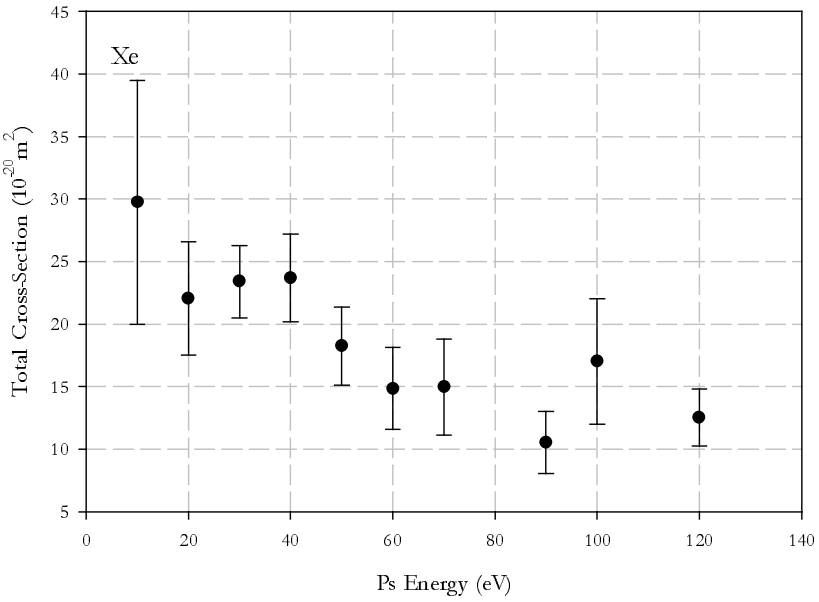

[1] D E Leslie, S Armitage, J E Beale, G Laricchia, in preparation
[2] J E Beale, S Armitage, D E Leslie, G Laricchia, in preparation
[3] J E Beale, D E Leslie, S Armitage, G Laricchia, in preparation
[4] A Garner, G Laricchia, A Özen J Phys B **29** (1996) 5961-5968
[5] A Garner, A Özen, G Laricchia J Phys B **33** (2000) 1149-1157