Type: Parallel session talk

## Production of the excited charm mesons D1\_0 and D2\*\_0 with ZEUS at HERA

vendredi 22 juillet 2011 10:15 (15 minutes)

The production of the excited charm mesons D1(2420)0 and D2(2460) in ep collisions was measured with the ZEUS detector at HERA using an integrated luminosity of 373 pb-1. The masses, widths and helicity parameters of these resonances were determined and compared with previous measurements, with theoretical expectations and with published ZEUS results of an independent sample with an integrated luminosity of 126 pb-1. The measured D01 width is found to be above the world average value in both cases. The measured D01 helicity parameter allows for some mixing of S- and D-waves in its decay to D pi; however the result is also consistent with the prediction for a pure D-wave decay.

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