

# 31st International Symposium on Lepton Photon Interactions at High Energies



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Type: **Talk**

## ATLAS measurements of charm and B hadron production and properties

*Tuesday 18 July 2023 16:30 (15 minutes)*

This talk will discuss recent results from the proton-proton collision data taken by the ATLAS experiment on the production of charm and B hadrons and their properties. Measurements of  $J/\psi$ ,  $\psi(2S)$ ,  $D_s$ , and  $B^+$  differential production cross sections at 13 TeV will be reported. Results on the associated production of the  $J/\psi$  with other particles will be shown. Measurements of the  $B_0$  lifetime and the  $B_s \rightarrow \mu\mu$  effective lifetime will be presented.

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**Session Classification:** Flavour

**Track Classification:** Flavour physics