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GammaLearn : deep learning applied to CTAO event reconstruction

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GammaLearn is a project to develop deep learning solutions for Imaging Atmospheric Cherenkov Telescopes data analysis and in particular for the Cherenkov Telescope Array Observatory (CTAO) currently under construction. Its first application is event reconstruction based on the images or videos recorded by Cherenkov telescopes.

In this talk, I will present the recent results obtained applying domain adaptation to compensate for some of the issues arising from data vs simulation discrepancies. I will also present the associated DIRECTA project that aims at applying DL in real-time.

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