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Differentiable Programming and the IRIS-HEP Analysis Grand Challenge

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The IRIS-HEP Analysis Grand Challenge (AGC) seeks to build and test a fully representative HL-LHC analysis based around new analysis tools being developed within IRIS-HEP and by others. The size of the HL-LHC datasets is expected to require fully distributed analyses sometimes sourcing 100's of TB of data or event, later in the HL-LHC, PB-sized datasets. This talk will give a brief overview of the AGC and discuss how differentiable programming will be incorporated into the challenge as a stretch goal.

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Session Classification: Progress in Computer Science