Contribution ID: **15** Type: **Poster**

Deep Learned Algorithmic Combinatorics

We introduce a new algorithmic deep architecture which combines graph neural networks, set transformers and Monte Carlo tree search like random sampling. The algorithm targets large scale combinatorial inverse problems, such as clustering of hypergraphs, encountered in high energy physics and beyond. We demonstrate the method on the tracking problem of high energy collisions.

Consider for young scientist forum (Student or postdoc speaker)

Yes

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Session Classification: Poster session