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# Poisson-Lie T-duality defects and target space fusion

*Wednesday 28 September 2022 14:40 (20 minutes)*

Topological defects have long been known to encode symmetries and
dualities between physical systems. In this talk I will show, at the level of the target space, how defects can be used to study a generalized notion of T-duality, known as Poisson-Lie T-duality. This defect in turn provides us with a proposed kernel for the Fourier-Mukai transform implementing Poisson-Lie T-duality on the RR-sector. Finally I will give a brief outlook how these defects allow for a notion of fusion at the level of the target space, which can be elegantly described within the framework of Dirac geometry. Based on 2208.04662 with Saskia Demulder.

## Summary

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**Session Classification:** Parallel Session Strings

**Track Classification:** Strings & Mathematical Physics