



LABORATORY FOR ELEMENTARY-PARTICLE
PHYSICS (LEPP)

Theory Seminar



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Mainz

**Collider probes of a gauged
U(1) baryon number**

I discuss the current status of collider constraints on dijet resonances from the ATLAS and CMS experiments and an interpretation in the context of a gauged U(1) baryon number. I also discuss the field content of minimal ultraviolet completions of such an anomalous U(1) symmetry and their collider phenomenology, including diphoton and 4-jet resonances. I also discuss the role of the exotic $Z \rightarrow Z' + \text{photon}$ decay in probing anomalous currents involving SM fields.

Wednesday, Nov. 28, 2018

2:00pm

401 Physical Sciences Building