

LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS (LEPP) Theory Seminar



## Felix Yu 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 -> Z' + photon decay in probing anomalous currents involving SM fields.

## Wednesday, Nov. 28, 2018 2:00pm 401 Physical Sciences Building

LEPP, the Cornell University Laboratory for Elementary-Particle Physics, and CHESS resources have merged and a new lab, (CLASSE), has formed. LEPP's primary source of support is the National Science Foundation. Visit us at www.lepp.cornell.edu