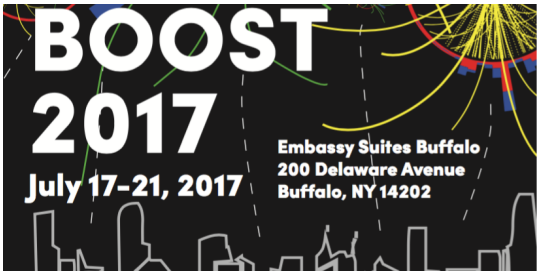

Contribution ID: **66** Type: **not specified**

A new scale-invariant jet clustering algorithm for the substructure era

We introduce a new scale-invariant jet clustering algorithm which does not impose a fixed cone size on the event. The proposed construction maintains excellent object discrimination for very collimated partonic systems. Nevertheless, it is able to asymptotically recover favorable behaviors of the standard anti-KT algorithm. Additionally, it is intrinsically suitable for the tagging of highly boosted objects. Because of these properties, this algorithm may prove to be useful for the continuing study of jet substructure.

Authors: Prof. WALKER, Joel (Sam Houston State University); LARKOSKI, Andrew (Reed Collge); Dr RATHJENS, Denis (Texas A & M University (US))

Presenter: Prof. WALKER, Joel (Sam Houston State University)

Session Classification: Poster Session