Proposal Review 3 : 1535595

Agency Name:	National Science Foundation
Agency Tracking Number:	**1535595**
Organization:	
NSF Program:	Accelerator Science
PI/PD:	Rubin, David
Application Title:	Electron Cloud Trapping in High Energy Accelerators
Rating:	Very Good

Review

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to intellectual merit.

Electron cloud effects are a significant limitation for any accelerator with a positively charged beam. The Cornell team has been at the forefront of electron cloud experimental studies for th several years with CESR-TA, and they are leaders in the field. This is a modest extension of their previous work, building and exploiting a new diagnostic for characterizing electron cloud formation.

In the context of the five review elements, please evaluate the strengths and weaknesses of the proposal with respect to broader impacts.

Understanding electron cloud phenomena is important for a broad range of accelerators. Cornell also has a strong history of training accelerator scientists for the future,

Please evaluate the strengths and weaknesses of the proposal with respect to any additional solicitation-specific review criteria, if applicable

Summary Statement

In summary, the topic is important, the approach is new, they have a solid plan, it is an experienced team and the resources seem adequate. The one negative comment is that the propos somewhat sloppily put together an.d has not been read carefully for spelling or English