

Abstract Submitted  
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**The Development and Assessment of Particle Physics Summer Program for High School Students** BREAN PREFONTAINE, DR. NAOKO KURAHASHI NEILSON, DR. CHRISTINA LOVE, Drexel University — A four week immersive summer program for high school students was developed and implemented to promote awareness of university level research. The program was completely directed by an undergraduate physics major and included a hands-on and student-led capstone project for the high school students. The goal was to create an adaptive and shareable curriculum in order to influence high school students' views of university level research and what it means to be a scientist. The program was assessed through various methods including a survey developed for this program, a scientific attitudes survey, weekly blog posts, and an oral exit interview. The curriculum included visits to local laboratories, an introduction to particle physics and the IceCube collaboration, an introduction to electronics and computer programming, and their capstone project: planning and building a scale model of the IceCube detector. At the conclusion of the program, the students participated an informal outreach event for the general public and gave an oral presentation to the Department of Physics at Drexel University. Assessment results and details concerning the curriculum and its development will be discussed.

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