

Abstract Submitted
for the APR16 Meeting of
The American Physical Society

Phantom of the Universe: A State-of-the-Art Planetarium Show on Dark Matter MICHAEL BARNETT, Lawrence Berkeley National Lab — Phantom of the Universe is a planetarium show premiering in 2016 that will showcase an exciting exploration of dark matter, from the Big Bang to the Large Hadron Collider. The show will reveal the first hints of its existence through the eyes of Fritz Zwicky. Viewers will marvel at the astral choreography witnessed by Vera Rubin in the Andromeda galaxy. They will plummet deep underground to see the most sensitive dark matter detector on Earth. From there, they will end the journey at the Large Hadron Collider, speeding alongside particles before they collide in visually stunning explosions of light and sound, and learning how scientists around the world are collaborating to track down the constituent of dark matter. The show will be offered to planetariums worldwide free of charge. It will feature music composed by Mickey Hart (Apocalypse Now, The Twilight Zone, The Grateful Dead) and narration by Academy-Award winning actress Tilda Swinton, and showcase the creativity and directing prowess of Joao Pequeno and the writing and producing talents of award-winning filmmaker, Carey Ann Strelecki. See a flattened preview (with resulting distortions) at: <http://PhantomOfTheUniverse.com/>

R Michael Barnett
Lawrence Berkeley National Lab

Date submitted: 04 Jan 2016

Electronic form version 1.4