

Mu*STAR Update on Plans to Fund a Pilot Plant

Rolland Johnson

Muons, Inc. and Collaborators

Abstract

We describe our Big Hairy Audacious Goal: To make SRF accelerators so powerful and efficient that they make enough neutrons to produce nuclear energy for electricity or process heat at less cost than from wind, solar, or natural gas, without weapons proliferation legacies of enrichment and chemical reprocessing, by burning unwanted nuclear materials. The progress toward this goal is updated, including recent interactions with the US Nuclear Regulatory Commission, the Nuclear Energy Institute, the US Nuclear Infrastructure Council, members of the US Congress, the US Department of Energy, and several US National Laboratories regarding potential collaborations and funding opportunities. We will discuss the ORNL, INL, SRNL, Muons technical report on our GAIN voucher grant for the on-site conversion of LWR SNF from oxides to fluorides suitable for our Molten-Salt eutectic fuel.