March 14, 2018
RE: **Referee Report**
Dr. Livius Trache.

REFEREE REPORT

A very modern and interesting esperimental research is addressed in the presentation entitled "*Star physics in above- and under-ground nuclear physics laboratory*" by Dr. Livius Trache, an expert in the field, who was leading a group of researchers at Texas A & M University, College Station, Texas Area, TEXAS, USA from 1993 to 2014 in his quality of Senior Research Scientist.

Dr Trache understands well the field of Nuclear Astrophysics, in which he produced very useful research works. The examples of results he obtained in several Laborarories, using the radioactive beams, are well suited to explain the diversity and the ingeniosity of the methods, as well as the usefulness of the results. Moreover, these methods are using advanced technologies, available only from industry.

Particular examples will be given for radiative proton capture processes and carbon burning.

I recommend to inclde Dr. Trache on the list of invied talks.



(Dorin N. Poenaru)