

3rd Jagiellonian Symposium on Fundamental and Applied Subatomic Physics



Contribution ID: 19

Type: **talk**

Possible LENR observation due to dineutron formation

Tuesday, 25 June 2019 11:00 (20 minutes)

Low energy nuclear reactions (LENR) are considered based on dineutron formation in the outgoing channel of a neutron induced nuclear reaction on ^{159}Tb . Due to the dineutron presence and subsequent decay, either it is itself, or its products may react with ^{158}Tb nuclei to transform them directly or sequentially into ^{160}Tb . Accumulation of ^{160}Tb is assumed from purely strong or weak-strong processes via nuclear reactions at room temperature. Some theoretical estimations, experimental observations and measurement results of terbium sample radioactivity are presented and discussed.

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Session Classification: Tuesday