Contribution ID: **375** Type: **Poster**

Isotopic Composition of Precipitation at Ongkharak District, Nakhon Nayok Province

Wednesday 24 May 2017 15:45 (15 minutes)

In this work the utilization of nuclear hydrological instruments using Liquid Scintillation Counter (LSC) and laser absorption spectrometer (Cavity Ring-Down Spectrometer, CRDS) were employed. All samples from the precipitation were treated for isotopic instruments. Tritium values were analyzed with electrolytic enrichment and LSC while deuterium and oxygen-18 were calculated on CDRS. As a result, tritium values ranged 0.6-13.3 TU (tritium unit), deuterium values are between -76.44 and -7.5 ‰ (per mil) and oxygen-18 values show -10.67 to -2.42 ‰. The data of tritium and stable isotope can be used to input data for studying the dynamics of groundwater in Ongkharak area.

Keywords: Isotope hydrology, tritium, stable isotope

Author: Mr SAENGKORAKOT, Chakrit

Co-authors: Mr KAMDEE, Kiattipong; CHANRUANG, Patchareeya

Presenter: Mr SAENGKORAKOT, Chakrit

Session Classification: Poster Presentation I

Track Classification: Plasma and Ion Physics, Nuclear and Radiation Physics