

# **Neutron Activation Analysis Lab at ETRR-2: Achievements and Future Work**

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The presentation will cover the following topics:

- 1- Brief description of neutron activation analysis laboratory;
- 2- Current experiments performed at neutron activation laboratory at Egypt Second Research Reactor.
- 3- Planned experiments which include
  - i. Designing and installing a loop irradiation facility for analysis of circulating liquid samples. It requires insertion of irradiation tube close to the reactor core. I installed this facility at Kyoto University Reactor, and I am working on installing it at our reactor, ETRR-2.
  - ii. Installing a sub-cadmium irradiation facility outside the core of ETRR-2 in order to perform epithermal neutron activation analysis.