International Conference on the Safety of Radioactive Waste Management, Decommissioning, Environmental Protection and Remediation: Ensuring Safety and Enabling Sustainability



Contribution ID: 89 Type: POSTER

## Sorption of Radioactive 60Co and 137Cs in low level radioactive waste onto crosslinked Crown ether Polymeric Composite

- 1. Abstract
- 2. Introduction
- 3. Experimental 3.1. Materials and reagents 3.2. Preparation of composite polymer 3.3. Studying the physicochemical properties of the polymer 3.4. Application of the composite polymer in radioactive waste treatment 3.5. Radiometric Measurements and distribution Coefficient
- 4. Results 4.1. Physicochemical properties of the polymer 4.2. Effect of contact time 4.3. Effect of Metal ions concentration 4.4. Desorption process
- 5. Conclusion and prospects

**Primary authors:** Dr HAMED, Mahmoud Goneam (Egyptian Atomic Energy Authority); Prof. METWALLY, Sayed Sayed (Egyptian Atomic Energy Authority); BORAI, emad eldeen (Egyptian Atomic Energy Authority)

**Presenter:** BORAI, emad eldeen (Egyptian Atomic Energy Authority)

**Track Classification:** Track 5 - Practical experiences in integrating safety and sustainable development