

INTERDISCIPLINARY RESEARCH CENTER *for*

Industrial Nuclear Energy

Nuclear Lecture Series

Nuclear Radiation: From detection to shielding

Abstract

Nuclear radiation covers a wide range of applications, including energy production, industry, medicine, and scientific research. However, it poses serious health and environmental risks if not handled properly. This talk covers the basics of nuclear radiation and the principles of detecting it. Common radiation detection technologies will be discussed. The talk will also address radiation protection strategies, focusing on shielding principles and material selection to reduce radiation exposure. By linking detection methods to effective shielding solutions, this talk gives a general overview of how we monitor, measure, and protect against nuclear radiation in the lab and beyond.

Presenter



Dr. Faris Al-Matouq
Affiliate, Nuclear Center
Assistant Professor, Physics



16 February 2026



2:00 PM – 3:00 PM

Registration



Building 63 – 327 (Nuclear Simulation Lab)



Contact us
lrc-ine@kfupm.edu.sa



Website
ri.kfupm.edu.sa/irc-ine

