

Dottorato di Ricerca in Fisica dell'Università degli Studi di Messina

14 Novembre 2011, ore 15.00, Aula E. Majorana, Dip.to di Fisica,
V.le F. Stagno d'Alcontres 31, S. Agata, Messina

Seminar title:

Fukushima: Eight months after

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Abstract

The accident occurred at the Fukushima Daichi NPP as a consequence of the Japan Earthquake and Tsunami, classified at 6th level of the INES, has involved a significant release of radioactive materials, inducing a considerable contamination and irradiation risk to people and environment.

Actually the short term consequences typical of a nuclear accident can be considered quite overcome, although the recovery process of the reactors of Fukushima Daichi NPP is a slow and difficult process, still requiring continuous and arduous efforts from TEPCO workers and Japanese volunteers.

For what concerns the long term risks due to this nuclear accident, a comprehensive understanding of the contamination status of the environment is necessary to choose the suitable countermeasures to adopt.

In this framework, Japanese government is still providing an astonishing effort in evaluating contamination and exposure data, that are continuously and correctly shared not only with the scientific and government institutions involved, but also with the public.

A survey of the reactor status, and of the actual contamination and exposure levels will be provided, together with a description of the remediation activities and countermeasures adopted from the government institution, in the framework of the international recommendations.

Finally, the lesson learned from the Fukushima accident will be discussed, and a short comparison with the Chernobyl experience will be attempted, to better understand risks and consequences of a nuclear accident in the third millennium scenario.