



**UPO**

UNIVERSITÀ DEL PIEMONTE ORIENTALE  
DIPARTIMENTO DI SCIENZE E INNOVAZIONE TECNOLOGICA

## EVENTI DiSIT

Seminario | Seminar

26-10-2023

11:00-12:30

Aula 202

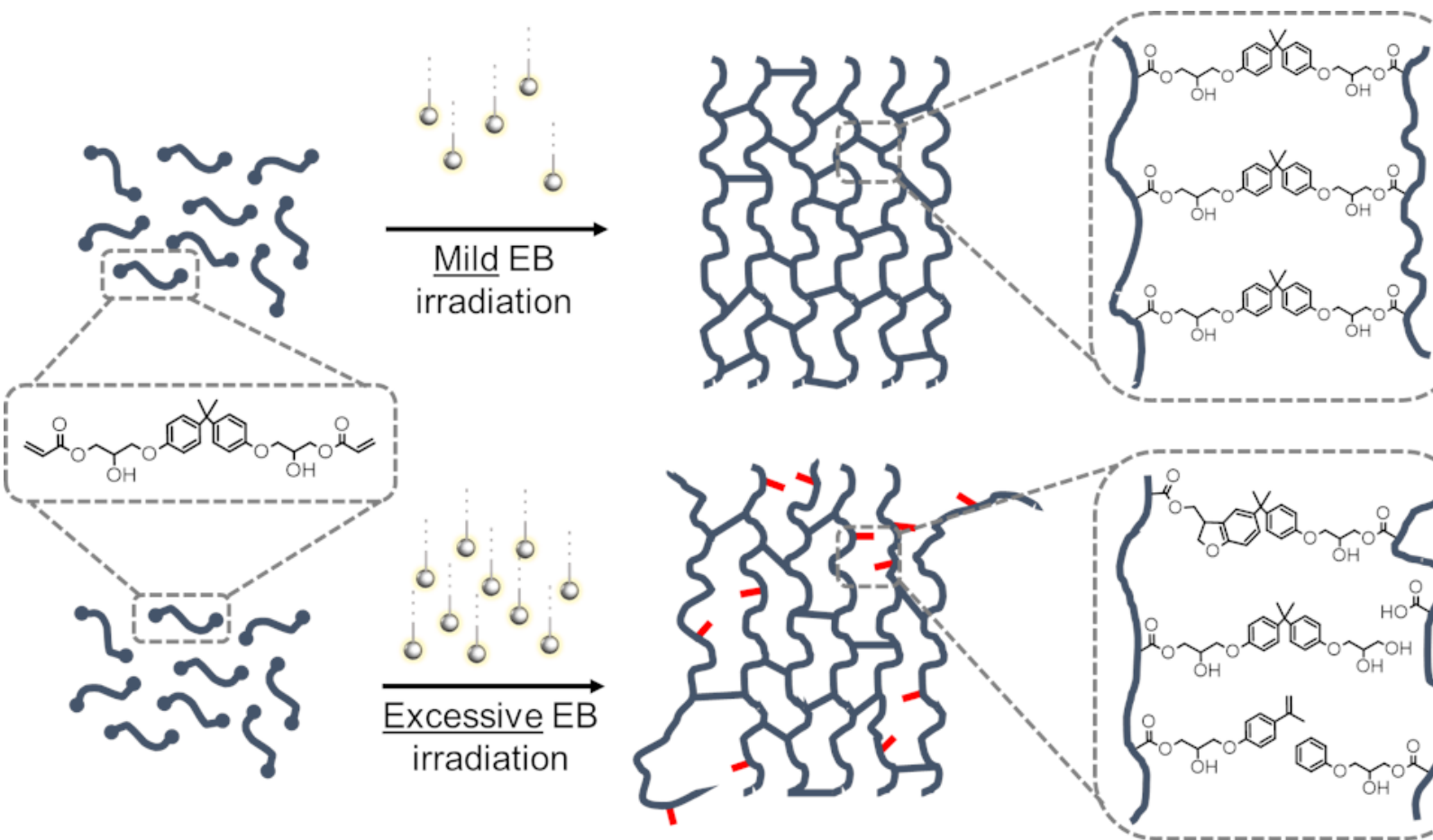
# On Electron Beam-Cured Polymer Networks: Formation Process and Other Chemical Phenomena

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Electron Beam (EB) cannons and devices have been employed for decades in several industrial applications, including curing of thermosetting acrylate coatings. In this seminar, we will outline and discuss some lesser-known EB-triggered chemical reactions. In particular, we will tackle:

- Collateral chemical reactions during acrylic free radical polymerization);
- Epoxy cationic polymerization;
- Interpenetrating acrylic/epoxy polymer networks and their (hybrid) formation mechanisms.

The combination of a broader selection of EB-reactive chemistries and ad-hoc adjustments of EB settings is expected to aid the bottom-up development of engineered coatings, and ultimately extend the efficiency and range of possibilities of EB curing.

EVENTO APERTO A:

Docenti | Teachers, Borsisti | Research Fellows, Assegnisti | Postdoctoral researcher, Dottorandi | PhD students, Studenti | Students

SEMINARIO IN LINGUA: INGLESE

