



UNIVERSITA' DEGLI STUDI DI PAVIA

DOTTORATO DI RICERCA IN FISICA

COLLOQUIA 2018-2019

Seminario di Fisica Biomedicale

Giovedì 16 Maggio 2019

Aula Dottorato, ore 12

Dipartimento di Fisica, via Bassi 6, Pavia

Peptide Receptor Radionuclide Therapy (PRRT): clinical outcomes and future developments

Giovanni Paganelli

IRST-IRCCS Meldola (FC) e Università di Ferrara

Abstract: Peptide Receptor Radionuclide Therapy (PRRT) has been constantly evolving over the last decade, providing successful results in the treatment of tumors expressing somatostatin receptors, especially with ^{90}Y - and ^{177}Lu - radiolabelled peptides in neuroendocrine tumors (NETs). Recent and/or ongoing studies assure new perspectives to come. Dosimetry represents a precious guide for the selection of radionuclides and peptides, for protocol settings, for toxicity prevention and therapy optimization. Reliable and personalized dosimetry is more and more requested. This seminar reviews the important clinical outcomes obtained in PRRT and its further development.

