

Organization of the lecture



- Intro and Overview
- Part 1: Radioisotopes for medical applications
- Part 2: Cyclotron design and beam dynamics
- Part 3: Particle therapy systems for cancer treatment
- Part 4: Accelerators for industrial applications

IBA - Ion Beam Applications





MEDICAL TECHNOLOGY

- PROTON THERAPY (PT)
- DOSIMETRY
- RADIOPHARMA SOLUTIONS
- INDUSTRIAL APPLICATIONS

NOWADAYS

- R&D:
 - 12% of turnover • 13% of workforce
- Patent portfolio (2016):
 510 patents & patent applications, for 102 innovations
- Over **400 accelerator** systems installed worldwide
- ~270 M€ sales in 2015 • ~1600 employees worldwide, 40 nationalities

3