



PARTICLE PHYSICS SEMINAR

A PHYSICIST'S EXPERIENCE IN RADIATION THERAPY

JIASEN MA,
MAYO CLINIC

Mon
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11

4:15 PM

PRC 201

Physics Research Center
933 E 56th Street

About half of cancer patients are treated with some form of radiation therapy. While radiation treatment of cancer was started over 100 years ago, technologies continue to improve patient care in radiation therapy. After introducing some of the technologies using a clinical example, this talk will focus on treatment planning optimization for particle therapy. Treatment planning optimization plays a key role in maximizing the benefits of technologies for patients. Dose-volume constraints, delivery uncertainties, and radiobiology are some of the challenges. Some of the solutions that we developed will be presented.



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