



第 6 回 重粒子線 医工連携セミナー

『Treatment planning for scanning beam delivery at NIRS』

国立研究開発法人 量子科学技術研究開発機構 放射線医学総合研究所

加速器工学部 治療ビーム研究開発チーム(チームリーダー)

稲庭 拓 先生

Radiation therapy with scanned carbon-ion beams has been conducted at National Institute of Radiological Sciences (NIRS) since 2011. In this therapy, a narrow pencil beam is scanned three dimensionally across the target volume according to the beam steering file determined in the treatment planning system (TPS). To exploit the advantages of carbon-ion beam therapy fully, it is necessary to perform three-dimensional treatment planning and optimization. A prerequisite for this is an algorithm for accurate and fast dose calculation algorithms. In my talk, I will briefly explain the physical and biological models used in our TPS. In addition, I will introduce our future developments for further improvement of clinical outcome of charged particle therapy.

日 時

2017年9月8日(金) 17:00-18:00

会 場

群馬大学重粒子線医学センターカンファレンス室

～お問い合わせ～

群馬大学重粒子線医学研究センター 猪爪 (E-mail: inoino@gunma-u.ac.jp)

〒371-8511 群馬県前橋市昭和町3-39-22 TEL:027-220-8378 FAX:027-220-8379