注入聚束腔的离子束的能量分散对直线加速器输出束流波形的影响

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收稿日期 1989-12-12 修回日期 网络版发布日期:

<正>一、理论分析 众所周知,在质子直线加速器前常用聚束腔来提高加速器的捕获效率。从聚束腔至 加速器入口有一段聚束漂移空间,如图1所示。

关键词 质子直线加速器 聚束

分类号

THE EFFECT OF ENERGY SPREAD OF LONS INJECTING INT O THE BUNCHER ON THE OUTPUT BEAM CURRENT WAVEF ORM OF LINAC

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Abstract It has been discovered by experiment and quantitatively proved by theoretical deduction n that the energy spread of ions injecting into the buncher effects on the output beam current wave form of linac. The analytical relations of the effects of the energy spread of ions injecting into bunc her, the instabilities of the amplitude and phase of the high frequency electric field in buncher tank on the output beam current from linac are given.

Key words LinacBuncher.

DOI

通讯作者

扩展功能

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