

## 北京质子直线加速器的束流测量探头

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**摘要** 本文介绍了北京质子直线加速器的束流测量探头如荧光靶探头,束流变压器,发射度测量探头,束流截面测量探头,能散度测量探头,法拉第筒,减能器等的作用,机械结构及加工工艺。

**关键词** [质子直线加速器](#) [束流测量探头](#) [束流特性](#)

分类号

## BEAM MONITORS FOR BEIJING PROTON LINEAR ACCELERATOR

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**Abstract** The Beijing Proton Linear Accelerator (BPL) is tested in two energy steps, 10 MeV and 35 MeV. The beam performance is reached the design values. The beam qualities, such as position, current, emittance, profile, energy and momentum spread were measured respectively by position monitor, current monitor, profile monitor, energy monitor and others placed in low energy beam transport line. 10 MeV and 35 MeV measurement line. These monitors provide precise and sufficient information for operation and improvement of BPL. The mechanical design and its technology in manufacture for these monitors are described in this paper.

**Key words** [Proton linear accelerator](#) [Beam monitor](#) [Beam quality](#)

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