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TEACHSPIN

Instruments Designed For Teaching

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Muon Physics

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Detector size

Diameter: 16.5 cm

Height: 35.5 cm

Overall mass: 5 kg

PMT

10-stage bialkali photocathode

Diameter: 5.1 cm

Readout electronics size: 11x7.5x3 inches

Timing FPGA

Bin Size (resolution): 20 ns

Dynamic Range: 20 μ sec

Timing clock frequency: 50 MHz \pm 100 ppm

Power consumption (excluding PC): 25 Watts

Typical detected muon decay rate: 1 event/minute

Supported operating systems: Microsoft Windows 95, 98, ME, 2000, XP and Linux

Supported I/O port protocols: Serial and USB

Free updates of user interface and lifetime curve fitting software

Recommended minimum PC performance

Processor: Intel 133 MHz

Disk space: 100 Mbytes

Memory: 32 Mbytes

Detailed technical information and a copy of the user's manual for Muon Physics can be found at www.matphys.com. The website is maintained by Professors Thomas Coan and Jingbo Ye of Southern Methodist University, with whom TeachSpin collaborated in developing this exciting apparatus.

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