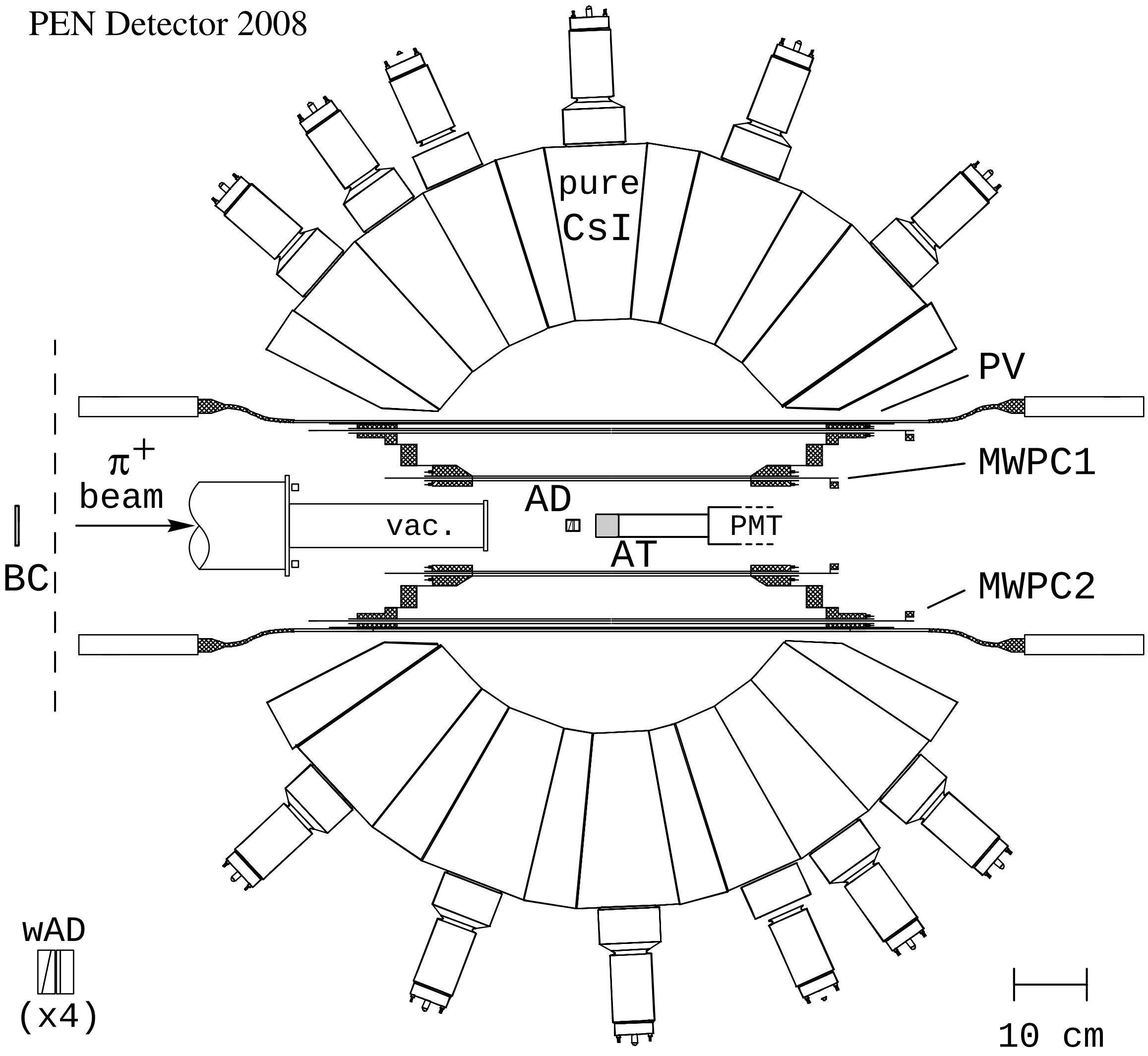PEN Detector 2008