

Beta测试连接框架设计

准直

➤ 放射源

直径: 72mm 长度: 50mm 出射孔直径~1cm

活度: $5 \times 10^7 \text{ Bq}$, 事例数 $8.64 \times 10^{12} / \text{day}$, 0.02sr立体角内

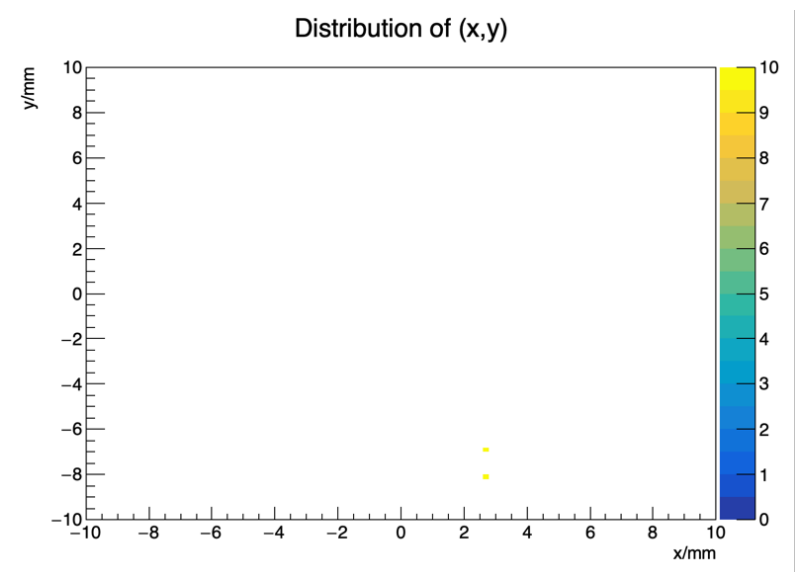
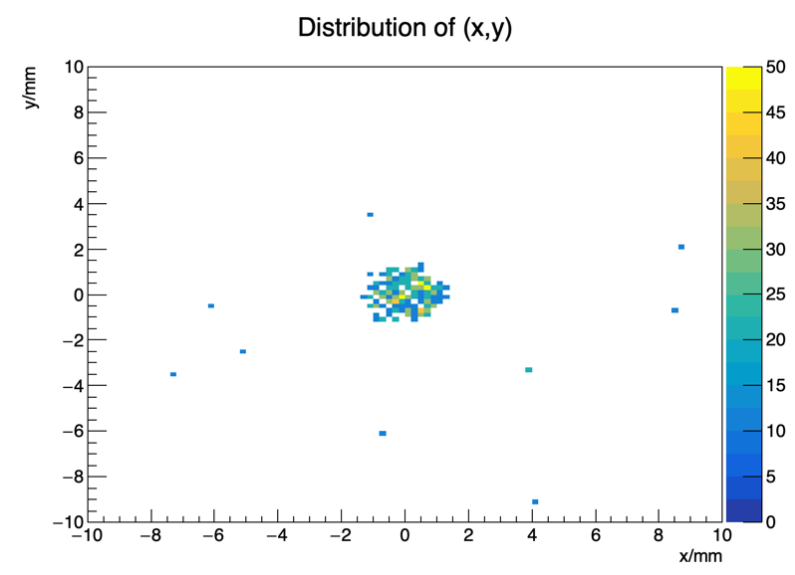
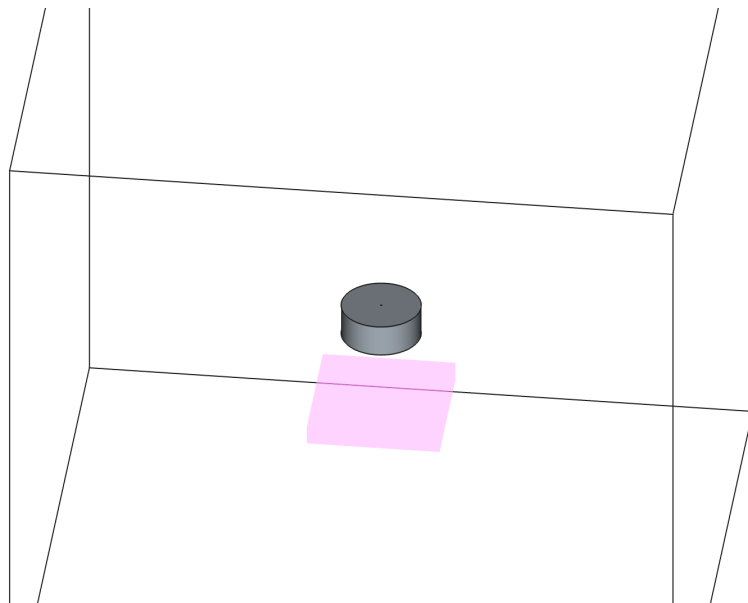
事例数 $1.6 \times 10^5 / \text{s}$

➤ Geant4模拟 (1W*10)

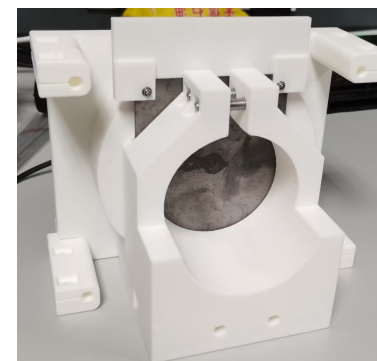
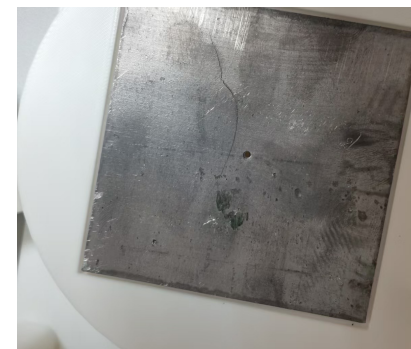
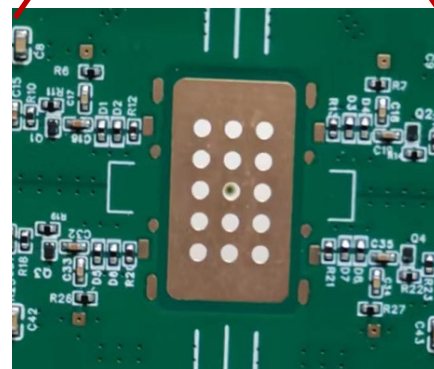
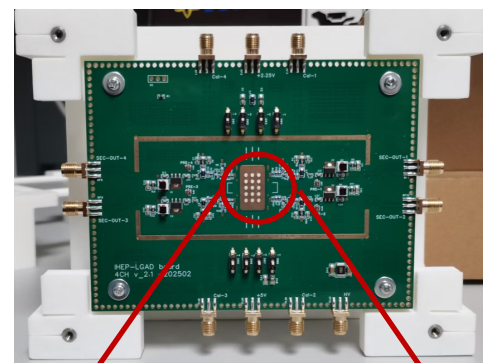
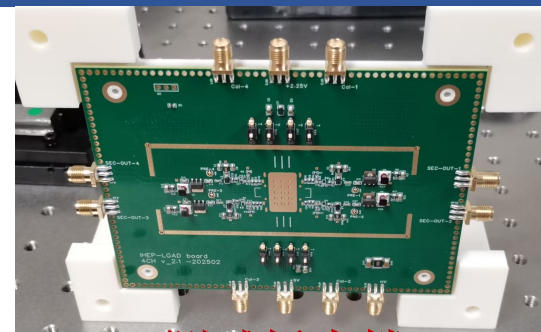
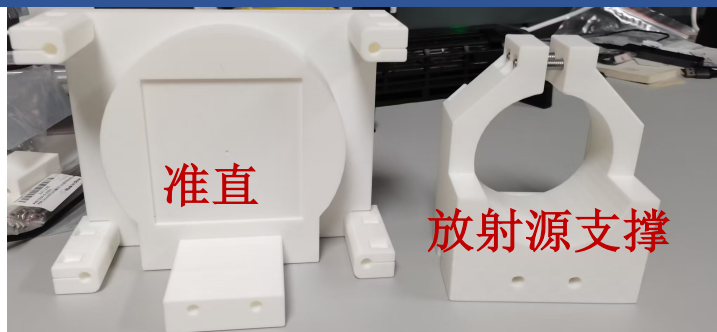
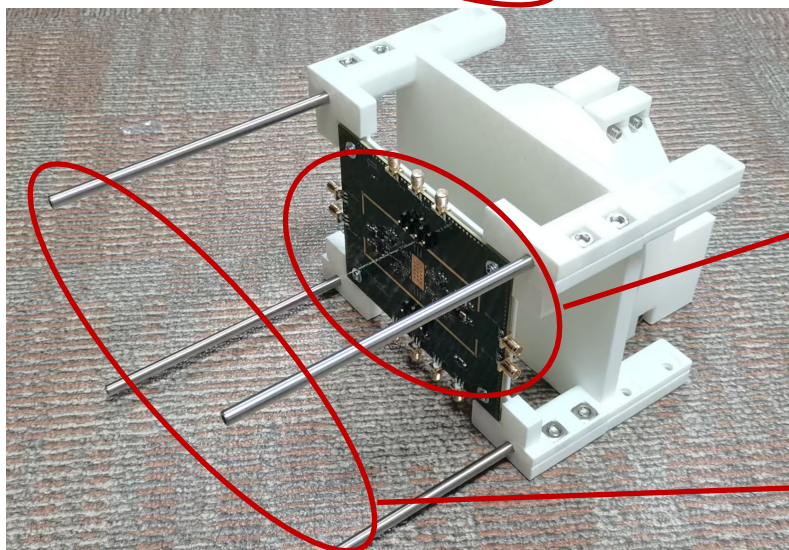
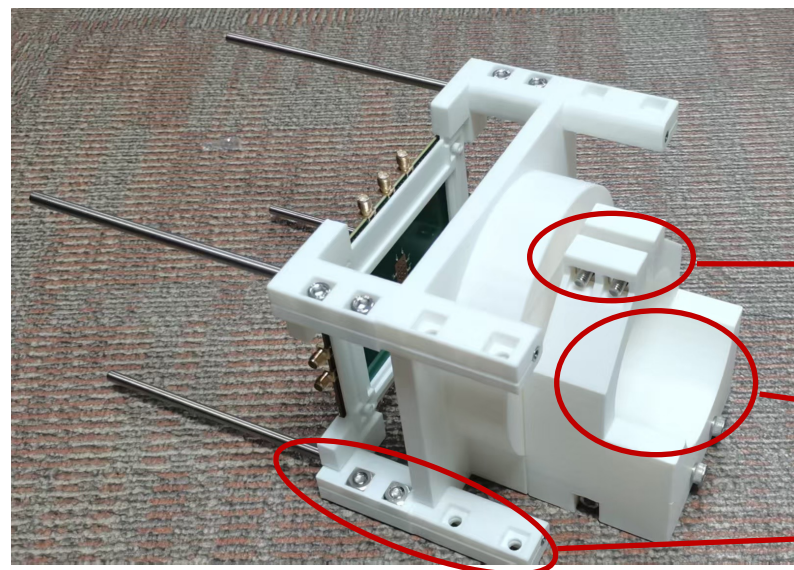
准直: 长度40mm, 内直径2mm。接收度3.7%, 估算出准直事

例数 $5.8 \times 10^3 / \text{s}$

+铅板: 1 mm



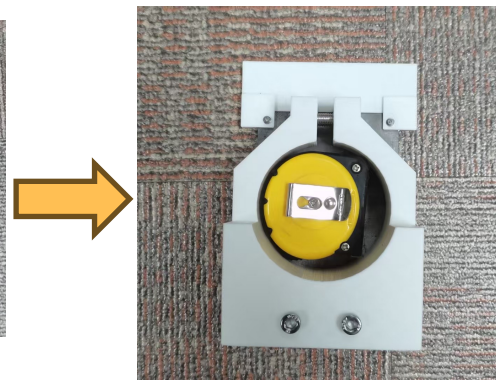
支撑框架静态展示



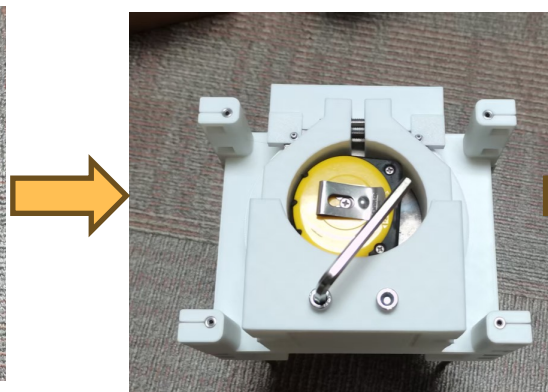
安装放射源动态展示



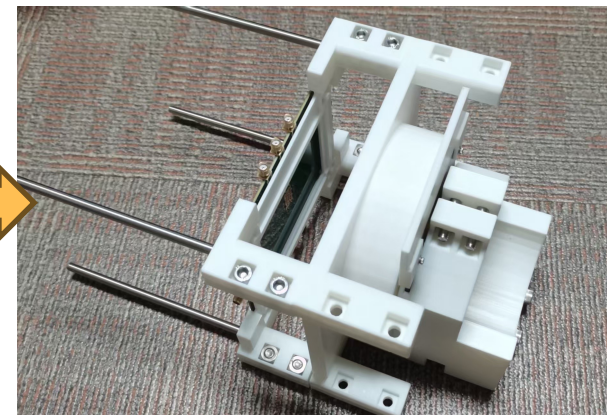
1、用卷尺代替放射源演示



2、放置放射源，拧紧



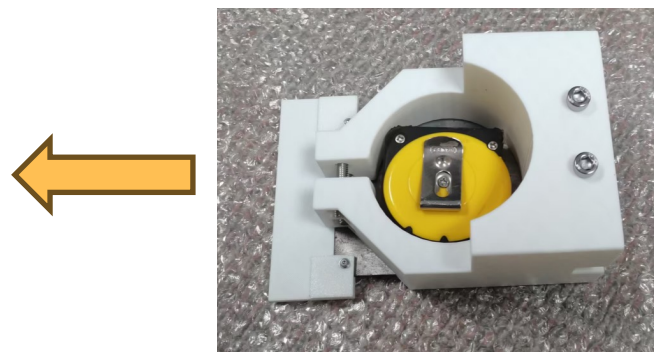
3、连接支撑件，拧紧



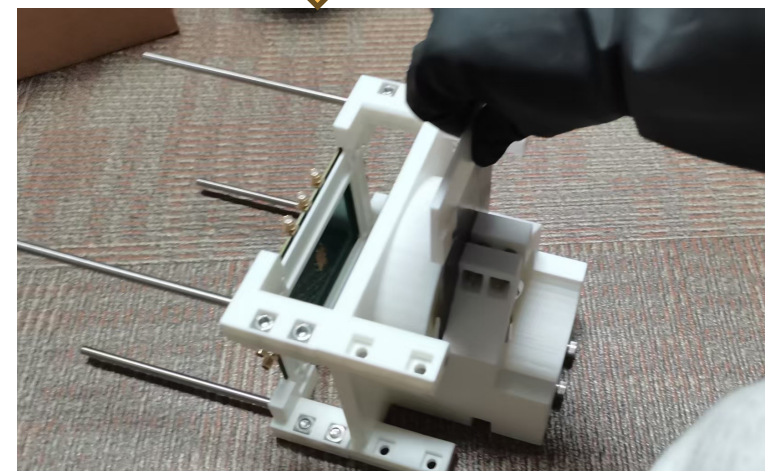
4、水平放置（恒温箱内）



7、抽出挡板，拿走支撑件



6、松开螺丝，放置于放射源底座上



5、抽出铅挡板，实验，放回铅挡板

BACKUP