



中子暨伽馬射線偵測器

提案人：王名儒 教授

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簡歷：

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<https://hep1.phys.ntu.edu.tw>

現參與 Belle II 實驗

市場及需求：

質子治療和核電廠週圍中子及伽馬射線監控。

技術摘要(含成果)：

感應器設計

讀出訊號與中子及伽馬射線分辨

中子測量靈敏度約 $0.5\text{cps}/\{\mu\text{Sv/hr}\}$

伽馬射線靈敏度約 $30000\text{ADC/s}/\{\mu\text{Sv/hr}\}$

優勢：

成本約為市售中子偵測器 $1/3$ ，並可同時測量中子及伽馬射線。

競爭產品：

FHT-762 Wendi-2

專利現況：

專利申請中

聯絡方式(請不用填)：

臺大產學合作總中心

Tel: 02-3366-9945 E-mail: ntuciac@ntu.edu.tw



Neutron and Gamma Ray Detector

PI : Prof. Min-Zu Wang

Department of Physics, National Taiwan U.

Experience:

High Energy Group, Dept. Physics, NTU

<https://hep1.phys.ntu.edu.tw>

Belle II Experiment

Market Needs:

Environmental radiation monitoring for proton therapy and nuclear power

Our Technology:

Sensor design

DAQ and identification between neutron and gamma

Sensitivity for neutron is about $0.5\text{cps}/\{\mu\text{Sv/hr}\}$

Sensitivity for gamma is about $30000\text{ADC/s}/\{\mu\text{Sv/hr}\}$

Strength:

Cost is about 1/3 of commercial one

Monitoring for both neutron and gamma

Competing Products:

FHT-762 Wendi-2

Intellectual Properties:

Patent application is in process

Contact (do not need to fill out):

Center for Industry-Academia Cooperation, NTU

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