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(71) 申请人: 清华大学(TSINGHUA UNIVERSITY) [CN/CN]; 中国北京市海淀区清华园, Beijing 100084 (CN)。同方威视技术股份有限公司(NUCTECH COMPANY LIMITED) [CN/CN]; 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。

(72) 发明人: 张丽(ZHANG, Li); 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。陈志强(CHEN, Zhiqiang); 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。王森(WANG, Sen); 中国北京市海淀区双清

路同方大厦A座2层, Beijing 100084 (CN)。许晓飞(XU, Xiaofei); 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。李元景(LI, Yuanjing); 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。金鑫(JIN, Xin); 中国北京市海淀区双清路同方大厦A座2层, Beijing 100084 (CN)。

(74) 代理人: 北京东方亿思知识产权代理有限公司(BEIJING EAST IP LTD.); 中国北京市东城区东长安街1号东方广场东方经贸城东2座1601室, Beijing 100738 (CN)。

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(54) Title: DATA PROCESSING METHOD AND DATA PROCESSING APPARATUS

(54) 发明名称: 数据处理方法和数据处理装置

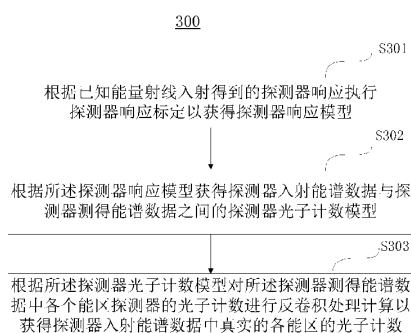


图3

- S301 Performing detector response calibration according to a detector response obtained by incidence of a known energy ray so as to obtain a detector response model
- S302 Obtaining a detector photon counting model between detector incidence energy spectrum data and detector-measured energy spectrum data according to the detector response model
- S303 Performing deconvolution processing calculation on a photon count of a detector in each energy region in the detector-measured energy spectrum data according to the detector photon counting model, thus obtaining a true photon count of each energy region in the detector incidence energy spectrum data

(57) Abstract: A data processing method (300) and a data processing apparatus (900). The data processing method (300) comprises: performing detector response calibration according to a detector response obtained by incidence of a known energy ray so as to obtain a detector response model (S301); obtaining a detector photon counting model between detector incidence energy spectrum data and detector-measured energy spectrum data according to the detector response model (S302); and performing deconvolution processing calculation on a photon count of a detector in each energy region in the detector-measured energy spectrum data according to the detector photon counting model, thus obtaining a true photon count of each energy region in the detector incidence energy spectrum data (S303).

(57) 摘要: 数据处理方法(300)和数据处理装置(900)。数据处理方法(300)包括: 根据已知能量射线入射得到的探测器响应执行探测器响应标定以获得探测器响应模型(S301); 根据该探测器响应模型获得探测器入射能谱数据与探测器测得能谱数据之间的探测器光子计数模型(S302); 根据该探测器光子计数模型对该探测器测得能谱数据中各个能区探测器的光子计数进行反卷积处理计算以获得探测器入射能谱数据中真实的各能区的光子计数(S303)。

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