

小型加速器による小型高輝度X 線源とイメージング基盤技術開発

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リガク 栗林

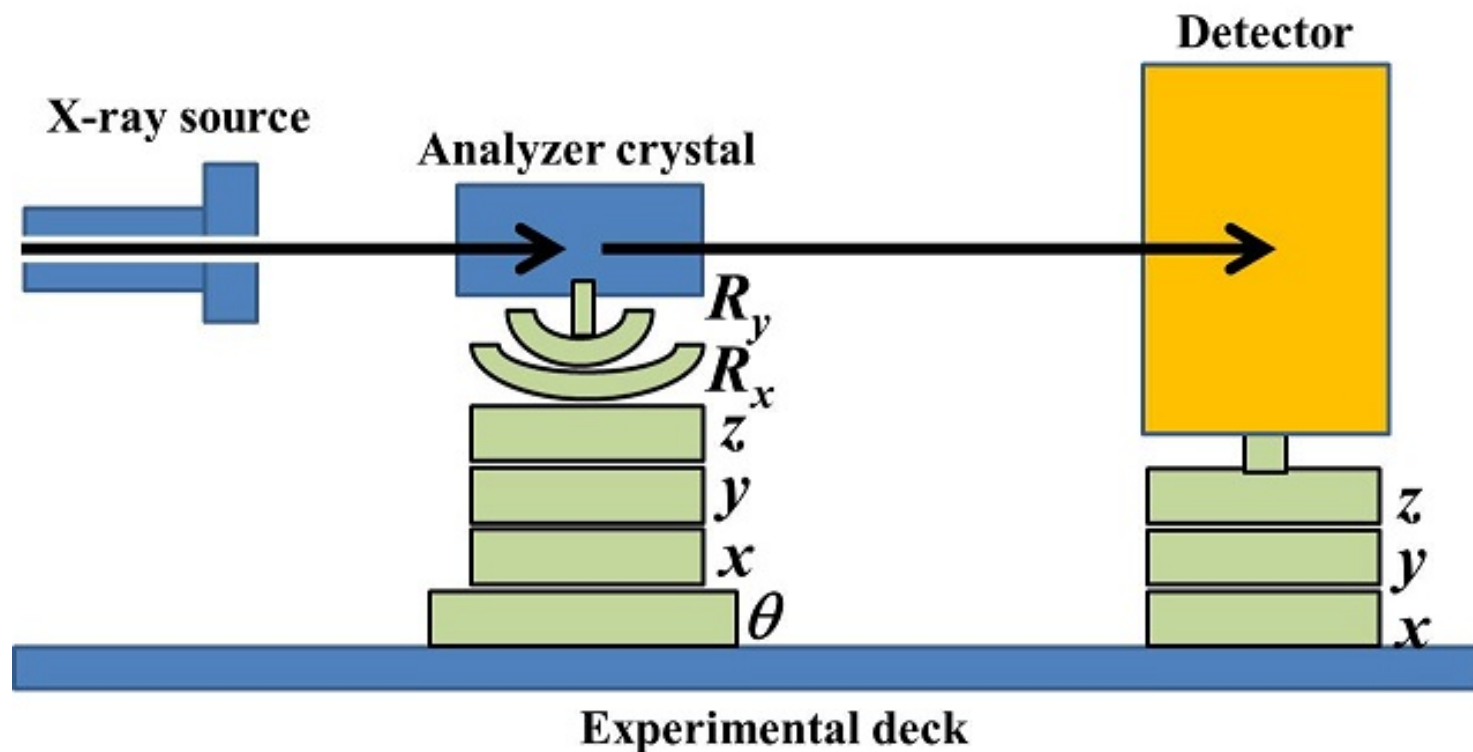
プロジェクト内での役割

- リガクの最終的な役割
 - システムの製品化検討
 - マーケティング
- 小型高輝度X線源の評価
 - 分光器の製作
- イメージング技術
 - 2次元のX線検出器の調査、選定

スペクトラム測定分光器

- スペクトラム測定
 - 結晶分光器
 - エネルギー範囲 5keV～60keV
 - 方式: スペクトラム測定
 - 1軸ゴニオメータ + 2次元検出器
 - Ge SSD
 - Si SDD
- X線強度測定
 - Si Pin フォトダイオード

分光器



X線特性評価用実験装置模式図

市場調査

- X線分析分野
 - たんぱく質構造解析
 - 小角散乱
 - X線偏光を利用したアプリケーション
 - XMCD(磁気円二色性)
 - 共鳴磁気回折
- 工業用検査装置
 - 高エネルギーNDT (市販品では800kVのX線装置 800kV 4.5kW)
- 医療関係
 - 位相コントラストイメージング
 - マイクロトモグラフィー
 - マンモグラフィー
 - メディカルイメージング
- 半導体
 - EUVL露光装置
 - マスク検査用光源

半導体関係

- 露光用光源
 - EUVL 13.5nm
- 検査用光源
 - マスク検査用の光源
 - シュバルツシルト光学系との組み合わせ。

まとめと今後の予定

- 分光器の評価
- 検出器の評価（継続）
- 市場調査

具体的な要求仕様などを調査する。

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