

Time stamped list mode data from gamma-ray spectroscopic measurements on 47 nuclear fuel assemblies performed at Clab, Sweden, September 2016 through March 2019

SND-ID: 2024-303. **Version:** 1. **DOI:** <https://doi.org/10.57804/2w41-0824>

Ladda ner data

DATASET01.tar.gz (12.15 GB)

Citering

Jansson, P., Bengtsson, M., Bäckström, U., Grape, S., Branger, E., & Sjöland, A. (2020) Time stamped list mode data from gamma-ray spectroscopic measurements on 47 nuclear fuel assemblies performed at Clab, Sweden, September 2016 through March 2019 (Version 1) [Dataset]. Uppsala universitet. Tillgänglig via: <https://doi.org/10.57804/2w41-0824>

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Forskningshuvudman

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Beskrivning

Data were collected by saving list-mode detector data during acquisitions. Two types of measurements were performed; Measurements with nuclear fuel assemblies present and background measurements without the fuel assemblies. Background measurements were performed in sequences of about 10 min acquisitions. The fuel assemblies were positioned in the water pool and axially moved during acquisition in front of a collimator built into the pool wall, rotated so that one of its four corners points towards the detector. The ^{137}Cs calibration source was positioned along the centre line of the collimator slit both during background and fuel measurements. The detector and associated electronics were located in a room adjacent to the pool.

Measurement data is saved in a text format. The text format is structured as a measurement header, followed by a sequence of one or more meta-batches. Each meta-batch is structured as a sequence of one or more event data batches. Each event data batch is structured as an event batch header, followed by one or more event data lines and an event batch footer.

Datasetet har ursprungligen publicerats i DiVA och flyttades över till SND 2024.

Data innefattar personuppgifter

Nej

Språk

[Engelska](#)

Identifierare

URN: [urn:nbn:se:uu:diva-413179](https://nbn-resolving.org/urn:nbn:se:uu:diva-413179)

Forskningsområde

[Subatomär fysik](#) (Standard för svensk indelning av forskningsämnen 2011)

Nyckelord

[Spent nuclear fuel](#), [Gamma](#), [Axial scanning](#), [List mode](#), [Spectroscopy](#), [Hpge](#), [Radiation](#), [Cs-137](#), [Physics with specialization in applied nuclear physics](#)

Tillgänglighetsnivå

Åtkomst till data via SND

Data är fritt tillgängliga

Användning av data

[Att tänka på vid användning av data som delas via SND](#)

Versioner

Version 1. 2020-06-15

Ladda ner metadata

[DataCite](#)

[DDI 2.5](#)

[DDI 3.3](#)

[DCAT-AP-SE 2.0](#)

[JSON-LD](#)

[PDF](#)

[Citation \(CSL\)](#)

[Filöversikt \(CSV\)](#)

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