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## Development of a detector housing for the SKADI instrument at ESS- Continuation of the lecture from DENIM XIII

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A new detector system has been developed for the SKADI instrument at the ESS neutron source in Sweden. The detector system is based on Li6 scintillator area detectors with multi-anode photomultipliers. The design incorporates two movable detector housings within a vacuum tube, allowing for measurements at various positions. The readout electronics, housed within the detector housing, are actively cooled via external supply lines.

As a continuation of 2024's presentation, this year's presentation will focus on the challenges and experiences in developing and designing special solutions for detector housing with cooling system. Lessons learned from the manufacture of critical components will also be presented.

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