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Neutron radiography for visualization of the filling process in the production of lithium ion cells

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Neutron radiography was used in several measurement series at the ANTARES instrument of the FRM2 to characterize influences on the filling process in lithium ion cell production. The filling of the cells with electrolyte liquid consisting of iterative dosing and wetting steps is very time-consuming and has a high influence on the cost and quality of the cells. Since it is otherwise not possible to look into the cell during the process, a mobile filling station was built so that the process could be measured in-situ and in-operando. Then the method was used to characterize parameter, electrode design and format influences and thus to optimize the process.

In the talk, the plant design, the measuring method and the results will be presented.

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