## Hungarian-German WE-Heraeus Seminar



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## Deep Learning with RESNET for High-Precision Laser Crater Data Processing

Wednesday 25 June 2025 17:40 (5 minutes)

RESNET (Residual Networks) is a deep learning architecture that has shown exceptional performance in image classification tasks. In this work, we apply a pre-trained RESNET model to classify and analyze laser crater data, leveraging its ability to capture complex patterns in high-dimensional datasets. The RESNET architecture provides a robust framework for improving the accuracy and speed of classification tasks, making it an ideal choice for the automated analysis of laser-induced craters and similar applications in material science.

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