Jülicher Masterpieces -JÜLICH **Technology for Excellent Science** Forschungszentrum

ZEA-1 Footprint on the ESS

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At the Central Institute of Engineering, Electronics and Analytics - Engineering and Technology (ZEA-1) we combine engineering at its finest and complex production technologies in cooperation with research partners, including the majority of large neutron science facilities worldwide. By providing interdisciplinary, turn-key solutions — from the idea to the product — we have enabled excellent in science via unique instruments and processes for more than 40 years.

Our core activities at the ESS are the design, manufacture, assembly and commissioning of central infrastructure components of the target, like the moderator and reflector system, the target wheel monitoring plug, the neutron beam extraction system, beam choppers and the hydrogen cryostat. In cooperation with JCNS we are also designing, manufacturing and assembling 3 scattering instruments.

The following figure shows in an isometric view the components provided by ZEA-1 (highlighted in red).



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Trial installation and Testing

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