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The European Spallation Source – 21st century possibilities for science using neutrons

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The European Spallation Source will be the world leading neutron source enabling new science, which was not possible so far. After a short summary of the design and the specifications of the ESS an overview of the current status and schedule of the ESS construction project will be given with a strong focus on the instruments and the surrounding scientific infrastructure. The overall goal of ESS is to begin user operation with 8 instruments in 2023. The plan is to reach the full scope of 22 public instruments by 2028. ESS will cover a very broad spectrum of science and is designed to push the limits of neutron methods to new horizons. Examples of new scientific opportunities will be discussed.

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