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Open-source FPGA Framework for the MicroTCA Ecosystem by DESY

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In recent years, DESY has diligently developed an open-source FPGA framework, known as FWK, aimed at expediting FPGA development within the scientific community, particularly with MicroTCA hardware. The framework serves as an abstraction layer that simplifies the utilization of various FPGA vendor tools, facilitates IP integration, aids in documentation creation, and offers many other benefits. In addition to FWK, DESY also provides a wealth of Board Support Packages designed for a range of MicroTCA AMC boards. This presentation will provide an overview of the FWK framework and showcase examples of open-source board support packages, demonstrating their practical utility in accelerating FPGA development for MicroTCA hardware

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