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## Cloud computing to support experiment online computing from the data center.

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Next generation nuclear and high energy physics experiments are moving filtering and processing tasks, previously done with online resources, to the data center. High resolution imaging systems at light sources and electron microscopes require significant amounts of “online” computing resources to rapidly reconstruct images to allow researchers to make “on the fly” adjustments to running experiments, but physical infrastructure prevents these resources from being co-located with the instrument. Financial constraints will also force these resources to be shared. These trends are blurring the line between online and offline computing. Cloud computing technologies, e.g. SDN, VM/Container provisioning, are possible solutions to the myriad of problems that arise from supporting these experiments from the data center.

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