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Identification Of Critical Beamline Components For Preventive Maintenance Plan At Synchrotron SOLEIL

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In the framework of initiating a preventative maintenance plan for SOLEIL beamlines while taking into account of their specificities, criticality matrices on the two different beamlines, PLEIADES and PROXIMA-1, have been established. SOLEIL provides 29 beamlines for 2400 external users per year. Each one of these beamlines has very different ways of operating, which tends to increase the complexity of finding an easy common tool towards a preventive maintenance plan. For instance, the average duration of a beamtime on PROXIMA-1 is a few hours, compared to 5 days on PLEIADES.

We will present the results of an evaluation of the components of the beamlines, represented as criticality matrices. We will show that such matrices can be flexible enough, in their construction, to be applicable to very different beamlines in terms of maintenance, and function as a first start towards a preventive maintenance plan. We will also share how this work has been received within the beamline community.

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