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HOW TO SETUP A COMPLEX SAMPLE BY LASERS

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With the major rise in commercial infrastructure works in recent years, the workload demands on the Kowari Residual Stress Instrument on industrial engineering components has also increased significantly.

And while the increase in demand represents good news for the industry, the changes have also brought with it many new challenges. These challenges have demanded innovation from scientists and users to formulate solutions to set up complex shapes and sizes of samples in a manner that is quick, simple but also accurate.

Scientists and technical support teams working on the Kowari Instrument have invested a significant amount of time investigating, designing and testing new solutions. Through this work, our team has come up with the answer of utilising four laser pointers every 90 degrees on the sample in order to establish all angles of the sample on the sample stage. This method allows scientists to see and gauge exactly whether the ideal angles and positions of the sample can be accessed by a neutron beam.

Our team implemented this method for the first time recently, and this poster will show the design and setup of all lasers, explain how they work, and discuss plans for future improvement.

Formal Invitation Letter Required

No

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