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Covid-19 related research opportunities at the MLZ

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The Covid-19 pandemic is a global challenge with unprecedented individual health, societal and economic impact. Scientific research is needed in many fields in order to find solutions for these new challenges. This conference contribution sheds light on how neutrons can contribute to this endeavor. It especially addresses what research options are available at the MLZ for COVID-19 research. Of course, there is a priority set on the proposals handed in which are related to COVID-19 research. They can be sent in any time and will be approved in a very short time.

Many neutron instruments at the MLZ may contribute to COVID-19 related research in the future. And this is not only with respect to health and micro-biological aspects. Also materials research is needed for better masks or reflectometry for better surfaces where the corona virus cannot stick to or is quickly demolished.

As an example a contrast matching Small Angle Neutron Scattering binding study between nsp10 and nsp16 is proposed which at the moment suffers from a low binding affinity of the two viral proteins.

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