Neutron scattering study on XYZ (title 14 pt)

(This title should be the same as that of the proposal on the NSL-RING system)

The instructions and examples written in blue should be removed, and the texts should be written in black.

This “Research plan” document is limited to two pages.

It is desirable to include the below 1 to 4.

An empty line should be inserted right below the title.

The font size for the main text should be 10.5 to 12 pt.

Do not change the format of this document including the margins and spaces between lines.

1. Scientific background

Provide a brief statement on the scientific background and general interest of your research. If you have already conducted preliminary experiments, or if the proposed research is a continuation of previous studies, please provide the preliminary or previous results.

2. Aims of the proposed experiment

State clearly the purpose(s) and scientific importance of the proposed experiment.

Explain why you need neutrons for your research and why you choose the instrument.

3. Experiment and beamtime estimation

State exactly the procedures of your experiment by providing descriptions of the sample(s), experimental conditions etc., as shown in the example below.

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e.g.）First, Sample A (AB2O4) will be mounted in XX-cryostat. YY scans will be measured at temperatures of \*\*, \*\*, and \*\* K. Each of them will take \*\* hours.

Second, Sample B (AB2-xCxO4 with x=0.2) will be mounted in ZZ-furnace. ………….

…….

In total, we request \*\* days for this experiment.

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Provide appropriate information on the composition(s) of the sample(s) (e. g. chemical formula), which will be necessary for beamtime estimation by the instrument scientists.

For compounds containing hydrogens (H), state whether they are deuterated or not.

If your proposal is a continuation of previous research, please state the difference from the previous experiment.

If you need special sample environment(s), please provide the experimental conditions and state why you need it, so that non-experts can understand.

Illustration(s) of the instrument layout and diagram(s) showing the procedure of the experiment would be helpful for the technical review.

4.Expected outcome

Describe possible outcomes of the proposal research and impacts on the research area and the society.