My laboratory is recruiting the PhD foreigner researcher. I introduce the typical PhD study...

\textbf{(1) Prediction for Heat-Removal Limit of BWR fuel assembly}

The purpose of this study is to develop the prediction method for Heat-Removal Limit of BWR fuel assembly.

Figure shows the highly important processes included in dryout phenomena. In this study, sub-channel code with these processes is developed. Spacer has a strong effect on heat removal limit. In this study, this spacer effect is evaluated by CFD.

\textbf{(2) Investigation for POST-BT mechanism under BWR operational Transients}

The purpose of this study is to clarify POST-BT mechanism under BWR operational Transients.

To clarify POST-BT mechanism, rewetting mechanism of fuel rod is very important. Therefore, the rewetting mechanism based on the test data is established and the rewetting correlation is developed based on rewetting mechanism. Finally, the transient sub-channel code with this rewetting correlation is verified by bundle test data.