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CEA-LANL efforts on nuclear reaction theories and their application to nuclear data

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For more than a decade CEA Bruyeres-le-Chatel and LANL theoretical division have been cooperating on the development of nuclear theories and their application to the nuclear data. Dr. Eric Bauge of CEA had vigorously participated in the collaborative efforts to promote ideas in fundamental theoretical physics to the basis of scientific and/or technological achievements in the applied area. Our joint efforts include incorporation of theoretical nuclear structure models into reaction theories, implementation of advanced nuclear reaction theories into computer codes that are widely used in nuclear data production, quantifying nuclear data uncertainties by considering nuclear reaction models, exchanging ideas for improvement of evaluated nuclear data, and so on. This talk summarizes the CEA-LANL collaborative activities on the development of nuclear theory and data, and demonstrates how the efforts have been expanded into the wider nuclear science community.

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