

Abstract Submitted
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IAEA activities on atomic, molecular and plasma-material interaction data for fusion BASTIAAN J. BRAAMS, HYUN-KYUNG CHUNG, Nuclear Data Section, International Atomic Energy Agency — The IAEA Atomic and Molecular Data Unit (<http://www-amdis.iaea.org/>) aims to provide internationally evaluated and recommended data for atomic, molecular and plasma-material interaction (A+M+PMI) processes in fusion research. The Unit organizes technical meetings and coordinates an A+M Data Centre Network (DCN) and a Code Centre Network (CCN). In addition the Unit organizes Coordinated Research Projects (CRPs), for which the objectives are mixed between development of new data and evaluation and recommendation of existing data. In the area of A+M data we are placing new emphasis in our meeting schedule on data evaluation and especially on uncertainties in calculated cross section data and the propagation of uncertainties through structure data and fundamental cross sections to effective rate coefficients. Following a recent meeting of the CCN it is intended to use electron scattering on Be, Ne and N₂ as exemplars for study of uncertainties and uncertainty propagation in calculated data; this will be discussed further at the presentation. Please see <http://www-amdis.iaea.org/CRP/> for more on our active and planned CRPs, which are concerned with atomic processes in core and edge plasma and with plasma interaction with beryllium-based surfaces and with irradiated tungsten.

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