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Recent Progresses of Plasma Property (Atomic and Molecular) Database for Industrial Plasma

Jin-Seop,¹ ShinTae Jung Kim,¹ Sang-Ho Lee,¹ Jung-Sik Yoon,² Mi-Young Song,² BongJu Lee,²

¹ *Korea Institute of Science and Technology Information, Daejeon, Korea*

² *National Fusion Research Center, Daejeon, Korea*

jsyoon@nfrc.re.kr

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Since the characteristics of plasmas depend strongly on the interactions between plasma particles such as electron, ions, and neutrals, a well-established atomic and molecular database is needed to understand and produce various types of plasma. Although atomic and molecular cross section data have been generated for a long time, they have not yet been integrated well into a user-friendly database which is increasingly needed especially for nuclear fusion and industrial plasma applications as well as pure plasma science. Thus here we introduce the NFRC and KISTI activity, how tried to collect, analyze and integrate the atomic and molecular cross section data into a database that is easily accessible for users through the internet.