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Studies on Io phase-CML diagram relating to the Jovian decametric radiation sources

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Origin of the Io phase-CML diagram has been remained without fully understood. While the Io-phase dependense can be interpreted in terms of the radiation directions using the concept of the hollow cone, restriction of the source regions as a function of system III longitude can only be understood by assuming the secaal source system III longitude between 210 and 280 deg; the energy injection is assumed to be in this region. As results of present studies on the relation of the dynamic spectra and system III longitude for the Jovian decameter wave radiation real source region, however, actual source region is identified in the region 120 - 180 deg system III, where the Jovian magnetic field intensity becomes maximum and suggest maximum energy generation being coupled with Io torus plasma.