Abstract Submitted
for the DAMOP16 Meeting of
The American Physical Society

Electron Impact Collision Strength in Si IX HALA NOMAN, Aligarh Muslim University, Y GOKCE, None, SULTANA NAHAR, ANIL PRADHAN, Ohio State University — Results from work in progress under Iron Project on the electron impact excitation collision strengths and rate coefficients for transitions between the fine-structure levels of the $2s^2 2p^2$, $2s2p^3$, $2p^4$, $2s^2 2p3s$, $2s^2 2p3p$, and $2s^2 2p3d$ configurations in Si IX will be presented. The fine structure collision strength has been calculated at very fine energy mesh using relativistic effects in Breit-Pauli R-matrix method. Maxwellian averaged collision strengths have been tabulated for all possible transitions among all 46 enrgy levels. We made comparisions of our results with the previously reported results in the literature and found significant differences in low the temperature range(Te $< 10^6$ K) for few of the transitions. The correction to the previous reported values results due to more extensive expansion for Si IX target states.

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Date submitted: 29 Jan 2016 Electronic form version 1.4