

## HHH SOL PLASMA MODEL RESULTS: PEAK TARGET HEAT FLUX DECREASES STRONGLY WITH ASSUMED SOL WIDTH

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| $D_q$<br>(m) | $Q_p$<br>(MW / m <sup>2</sup> ) | $T_p$<br>(eV) | $n_p$<br>(10 <sup>19</sup> m <sup>-3</sup> ) | $T_s$<br>(eV) | $n_s$<br>(10 <sup>19</sup> m <sup>-3</sup> ) |
|--------------|---------------------------------|---------------|----------------------------------------------|---------------|----------------------------------------------|
| 0.01         | 12.6                            | 10            | 3.6                                          | 46            | 1.5                                          |
| 0.03         | 4.2                             | 10            | 1.3                                          | 34            | 0.73                                         |
| 0.05         | 2.5                             | 10            | 0.75                                         | 30            | 0.51                                         |

- Heat flux profile peaking factor of 2 assumed
- Data from START ("natural divertor") indicates ~ 3 cm SOL width -> assumed 1cm SOL width is conservative lower bound