## Strike Point Control for NSTX



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Science Strike Point Control Performance Outer SP Control flux error is controlled <1mW/rad and position to within <1 cm Inner SP Control flux error is controlled <1mW/rad. Position is kept to within <1cm.</li> Reconstructions by EFIT is suspected for the bias error. This issue is currently worked on "Snowflake" via Strike Point Control "Snowflake" divertor configuration, a second-order null is created in the divertor region by placing two X-points in close proximity This configuration has higher divertor flux expansion and different edge turbulence and magnetic shear properties, beneficial for divertor heat flux reduction, and possible "control" of turbulence Implemented outer SP control on the inner divertor plate · Used inner and outer SP controller to achieve "snowflake". · Scanned the outer SP from 44 cm to 73 cm while keeping the inner With fixed SPs, used squareness and ∆r, to achieve "snowflake"