**The Progress of ITER Divertor Langmuir Probe final design**

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Divertor Langmuir probe (DLP) system is one of ITER diagnosis used to measure the divertor parameter profiles such as ion saturation current, electron temperature, density and loaction of strike point, for ITER advanced control and physics analysis. The system consists of three components: 1) 400 Langmuir probes installed on the side of monoblack in 5 cassettes. It should sustain 10MW/m2 Steady heat load or 20MW/m2 Transient heat load. With the thermal analysis and mechanical analysis, the structure design of probe has gone through 3 versions, and now the full tunsten design was reviewed and accepted. The Final machining and welding processes research is on going. 2) the Electronics System, includeing power supply, mode switching and signal conditioning components, will be used for 3 kinds of probe operational mode: Single probe voltage scanning mode, double probe voltage scanning mode and ion saturation current mode. 3) Instrumentation and Control system is used to provide scan waveform output for power supply and measured data to CODAC for calculation of Te, ne and ion flux. The work of DLP finished preliminary design and now is in the final design stage. we will start our final design review (FDR) in this year.