Upgrades planned for MAST in 2003

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A range of upgrades will be described. These include a replacement centre column, which will enable the full design performance of MAST to be achieved for the first time, and will feature a longer solenoid. At the same time the MAST P2 divertor coils will be increased in separation, aiding study of higher elongation plasmas. An upgraded divertor system will be incorporated, designed to withstand the high power loadings associated with long pulse operation at high performance and capable of biassing to spread the power load. The centre column armour will be modified to increase the strike point surface area, and permit a more extensive application of the interior gas feed that has been shown to be very effective on MAST.

*This work is funded jointly by the UK Department of Trade and Industry and EURATOM.