

CATEGORIES	KSTAR	US
EFIT	<ul style="list-style-type: none"> <li>•Algorithm understanding and development of way to include ECH and ECE</li> <li>•How to include the Incoloy effect</li> <li>•Validation of magnetic analysis and participation in the measurements</li> </ul>	<ul style="list-style-type: none"> <li>•Find way to include Incoloy compensation in EFIT –Preprocess of inputs</li> <li>•EFIT reconstruction of high beta plasmas in KSTAR</li> <li>•Inclusion of additional kinetic diagnostic signals such as TS and ion pressure</li> </ul>
Operation Tools	<ul style="list-style-type: none"> <li>•Tools for operation control such as EFIT viewer, RDBRM, e-log</li> <li>•Policy review for remote operation</li> </ul>	<ul style="list-style-type: none"> <li>•Full EFITViewer</li> <li>•Relational DB for run management</li> <li>•E-log</li> <li>•Webportal</li> <li>•Gatekeeper for PCS</li> <li>•Data storage in MDSPlus</li> <li>•Transfer rate detection</li> <li>•Study sociological aspects</li> </ul>

CATEGORIES	KSTAR	US
Real Time Control	<ul style="list-style-type: none"> <li>• Identification and control of plasma shape-part of PCS improvement</li> <li>• Non-symmetric error field study and design of measurement tools</li> <li>• Support for IVCC operation and PS design</li> </ul>	<ul style="list-style-type: none"> <li>• Improve TokSys capability</li> <li>• Improve KSTAR PCS</li> <li>• Analysis supports for current cross-over, vertical control growth rates for PS, etc specification</li> <li>• Physics operator training/discharge preparation using simserver simulations</li> <li>• Analysis on IVCC-flexibility, PS requirements, future upgrade, capabilities of RWM, ELM stabilization</li> <li>• Characterization of non-symmetric configurations – measurements and code</li> </ul>

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Others	<ul style="list-style-type: none"><li>•Code support – TRANSP, other physics codes</li><li>•Support for diagnostic developments, operation participation, loan of experimental components, training and education and development of physics issues in KSTAR for unique niches</li></ul>	<ul style="list-style-type: none"><li>•Fusion Grid for TRANSP</li><li>•Loan of XCS detector, 110 GHz gyrotron.</li><li>•Operation participation</li></ul>