

8 - 40 Control System of HECR at IMP

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A new hybrid superconducting ECR ion source (HECR) has been built at IMP as shown in Fig. 1.



Fig. 1 (color online) HECR and its control system at IMP.

The control system for HECR which seriously affects the operation of the facility is outlined in this paper.

In order to control all front-end devices, a programmable logic controller (PLC) is used. This PLC is also in charge of alarms and interlocks of the facility. Besides, EPICS^[1] framework is also adopted to integrate all software components. Control System Studio (CSS)^[2] is used to design the graphically interactive operation interface for operators. The control system effectively supports the commissioning of HECR.

References

- [1] <http://www.aps.anl.gov/epics/index.php>.
- [2] http://css.desy.de/content/index_eng.html.