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Centrall Signal Processing Consortium: the Italian contribution - 25'

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The SKA Central Signal Processor represents the largest radioastronomical correlator ever designed, including a massive real time pulsar search and pulsar timing machine.

Italian contribution to this element is described. It includes a study of the element local monitor and control, with particular emphasis to the pulsar search machine, the final optimization stag of the pulsar search, and the modelling of the mid correlator signal chain, especially in the presence of radio frequency interferences.

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