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Development of CMOS sensors for future high precision sensitive detectors

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CMOS sensors are being developed for various position sensitive detectors requiring high granularity and low material budget, together with relatively fast read-out and good radiation tolerance as well as low power dissipation. A review of the charged particle detection performances achieved with sensors of the MIMOSA series will be provided, emphasizing preliminary test results of chips developed for the beam telescope of the EUDET programme (E.U.FP6) to be commissionned in 2007, and for the 2008 vertex detector upgrade of the STAR experiment at RHIC. Beyond these short term applications, MIMOSA sensors are being developed for detectors requiring 10 to 100 times faster read-out: final EUDET beam telescope (2009), ultimate STAR upgrade (2011), CBM experiment at FAIR/GSI (

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