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# Heat transfer simulation of the BM@N -STS detector

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Silicon Tracking System (STS) will be part of tracking system in Baryonic Matter at Nuclotron (BM@N) experiment. Such detector consists of high amount of silicon chips, which are consuming significant electric power. Most of this power is dissipated in chip as heat, this process can cause overheating of chip or even whole detector. CFD (Computational Fluid Dynamics) thermal simulation might be used to investigate the overheating risk. Moreover results of such simulation can be used to design temperature stabilisation system

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