

**MEETING ON TOMOGRAPHY AND
APPLICATIONS
MATHEMATICS DEPARTMENT, POLITECNICO DI MILANO
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Bayesian Tomography from a few number of projections

ABSTRACT In Computed Tomography (CT), when the number of projections is very low or limited in angles, the problem becomes very ill-posed. The discretized version will also be ill-posed, in the sense that, the problem still may have infinite number of solutions. We need then to add constraints or prior information. We propose to use a basis such as Haar Transform and a sparsity enforcing prior to be able to obtain a satisfactory solution.

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