

Goals of the Project:

***Use Applied Mathematics to optimize performance of Medical imaging system.**

***Mathematics of HYPER and related algorithms (Wright HYPER,1 HYPER),Study Their relations to ML-EM algorithm and understand their resolution, noise amplification and artifacts.**

***Implement HYPER and related algorithms (Wright HYPER,1 HYPER) and ML-EM using MATLAB, study their comparison.**

***Mathematics formulation and simulation of projection of a dynamic disk with radius r that moves in different configurations with respect to time.**