Reviewer's report

Title: Signal Encoding in Magnetic Particle Imaging: Properties of the System Function

Version: 4 Date: 14 March 2009

Reviewer: Anant Madabhushi

Reviewer's report:

The authors have effectively addressed my concerns. The paper seems much clearer now in regard to both motivation and general explanation. Though the authors decided not to include any experimental results, I tend to agree with their assessment that this would be better addressed in later papers. In general the paper is well written and informative. I am happy to recommend it for publication. On a final note I think the word on page 5 should be "monotonically" and not "monotonously".

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests