

# AMS Standard Cover Sheet

Last Name: BANERJEE Middle Name: \_\_\_\_\_

First Name: ABHISHEK

Address through next June:

3400 NORTH CHARLES STREET

404 KRIEGER HALL DEPT OF MATH

JOHNS HOPKINS BALTIMORE MD 21218

Current Institutional Affiliation: JOHNS HOPKINS UNIVERSITY

MATHEMATICS

Highest Degree held or expected PhD (expected)

Granting Institution JOHNS HOPKINS UNIVERSITY

Ph.D. Advisor: Prof. CATERINA CONSANI

Thesis Title (optional) Nearby Cycles, Archimedean Complex and Periodicity in Cyclic Homology

Primary Interest (MSC# only) 14

Secondary Interests (optional) 11, 19

Home Phone \_\_\_\_\_

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abanerje@math.jhu.edu

Work Phone \_\_\_\_\_

(410) 5167397

Give a very brief synopsis of your current research interests in the box below (e.g. finite group actions on four-manifolds).

*My research interests lie in Algebraic Geometry and Arithmetic Noncommutative Geometry, and I am particularly interested in contexts in which Algebraic Geometry can be used in conjunction to Homotopical Algebra. In my thesis, I compare periodicity in cyclic homology to monodromy on nearby cycles complex. I have also implemented the arithmetic analogue of this result. I plan to work directly with the theory of motives, both from the point of view of noncommutative geometry and  $A^1$ -homotopy. [www.math.jhu.edu/~abanerje]*

Most recent position held, if any, post Ph.D.

University or Company \_\_\_\_\_

Position Title \_\_\_\_\_ Dates \_\_\_\_\_

Eligible for positions which requires U.S. citizenship or U.S. permanent residency:  Yes  No

If unsuccessful for this position, would you like to be considered for a temporary position?

Yes  No If yes, please check the appropriate boxes.

Postdoctoral Position  2+ Year Position  1 Year Position

List the names and affiliations of individuals who will provide letters of recommendation if asked. Mark the box provided for each individual whom you have already asked to send a letter.

1. Prof. Alain Connes, IHES, College de France, alain@connes.org

2. Prof. Caterina Consani, Johns Hopkins University, kc@math.jhu.edu

3. Prof. Jack Morava, Johns Hopkins University, jack@math.jhu.edu

4. Prof. Masoud Khalkhali, University of Western Ontario, masoud@uwo.ca

5. Prof. Steven Zucker, Johns Hopkins University, sz@math.jhu.edu

6. Prof. Vyacheslav Shokurov, Johns Hopkins University, shokurov@math.jhu.edu

7. Richard Brown, Johns Hopkins University, brown@math.jhu.edu (teaching)