Faculty of Mathematical Sciences
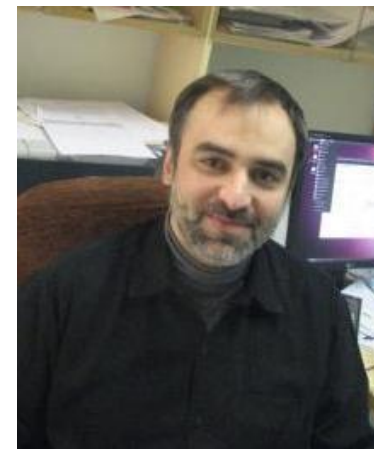**Department of** Pure Mathematics

Ali Rajaei
Assistant Professor
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Education

PHD: Mathematics, Princeton University, New Jersey, USA, Nov 94-June 98
MS: Mathematics, Princeton University, New Jersey, USA, Sept 93-Oct 94
BSc; Mathematics, Sharif University, Tehran, Sept 90-Aug 93, Valedictorian
HS: National Organization for Development of Exceptional Talents, Tehran, Sept 83-June 90, Valedictorian

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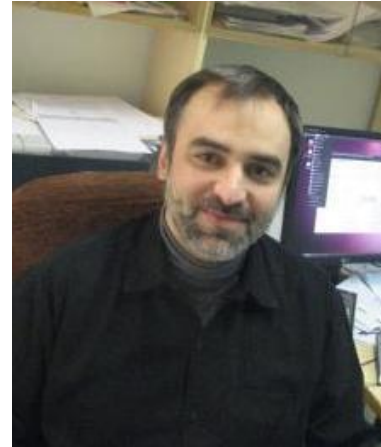**Department of Pure Mathematics**

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Research interests

Number Theory

Arithmetic Geometry

Algebraic Geometry

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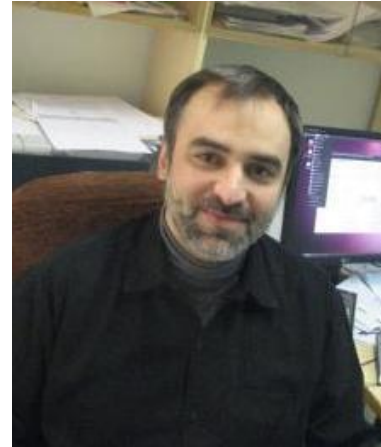**Department of** Pure Mathematics

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Courses taught

Elliptic Curves and Modular Forms

Analytic Number Theory

Algebraic Number Theory

Algebraic Geometry

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Selected Publications

- Lowering the levels of residual Hilbert modular Galois representations, PhD Thesis, Princeton University, June 1998
- On the levels of mod \ell Hilbert modular forms, Jour. Reine Ang. Math., Vol.537(2001), pp33-65
- (with M. Farivar) A new model in credit scoring using Voronoi diagrams and neural networks, (in Persian), ITICS-2011
- (with S. Rajaee) An investigation of visibility algorithms in intelligent robots' movement optimization, (in Persian), ITICS-2011
- (with E.Z. Zefreh, F. Didehvar) Accelerated iterative algorithms in reconstruction of computerized tomography images, International Journal of Engineering & Technology Sciences (IJETS) 2.2 (2014): 146-158.
- (with B. Heidaryan) Biquadratic Pólya fields with only one quadratic Pólya subfield, Journal of Number Theory 143 (2014): 279-285.

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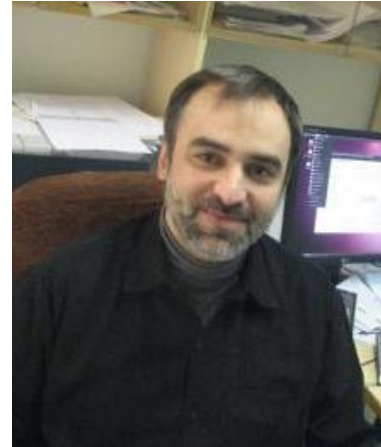**Department of** Pure Mathematics

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Additional Information

Membership:
Iranian Mathematics society

Awards:
DAC Fellowship Award, 2007
Graduate Research Fellowship, Princeton University, NJ, USA, 1993-98
Gold Medal, National Academy of Sciences, Mathematics Competition, Tehran, 1993
Research Fellowship, Inst. For Theoretical Physics and Mathematics, Tehran, 1990-93
Silver Medal, International Mathematics Olympiad, 1990, Beijing
Gold Medal, National Mathematics Olympiad, 1990, Tehran
Silver Medal, National Physics Olympiad, 1990, Tehran