The Eurasian Association on Inverse Problems (EAIP)
Introducing The 2020 EAIP Award Winners

On Behalf of the EAIP Award Committee Members:
Alemdar Hasanov Hasanoglu, Bernd Hofmann,
Vladimir G. Romanov, Gen Nakamura, Andreas Neubauer

Jan Boman
Former EAIP Awardees

The 2014 EAIP Award Winners:
Bernd Hofmann, Germany
Vladimir Vasin, Russian Federation
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2016 EAIP Awardees:
Jan Boman, Sweden
Segrey I. Kabanikhin, Russian Federation
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   - Bernd Hofmann, Germany
   - Vladimir Vasin, Russian Federation

2. 2016 EAIP Awardees:
   - Jan Boman, Sweden
   - Segrey I. Kabanikhin, Russian Federation

3. 2018 EAIP Awardees:
   - Vladimir G. Romanov, Russian Federation
   - Otmar Scherzer, Austria
2020 EAIP Award Recipients

Andreas Kirsch  
Germany

Roman Novikov  
France

Masahiro Yamamoto  
Japan
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The EAIP Award Committee has concluded that Prof. Andreas Kirsch deserves The Award of The Eurasian Association on Inverse Problems.
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\[-\Delta \psi + V(x) \cdot \psi = k^2 \psi, \ x \in \Omega \subset \mathbb{R}^3,\]

where \(\Omega\) is a bounded domain.

Can the potential \(V(x)\) be determined by the operator \(R(k)\), which is defined by Gelfand as the operator which "establishes a relationship between the function \(\psi(x)\) and its normal derivative \(\partial \psi/\partial \nu\) on the surface \(\partial \Omega\), and if yes, how?

This work opened a new research field in inverse problems, namely, determination of an unknown coefficient from the Dirichlet-to-Neumann operator.

After 33 years, the Gelfand’s problem in its original formulation has been solved by R.G. Novikov in [R.G. Novikov, G.M. Khenkin, The \(\partial\)-equation in the multidimensional inverse scattering problem, Uspehki Mat. Nauk, 42:3 (1987), 93-152], when he was a first year PhD student at the Moscow State University, being only 22 years old.
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   - Application of Carleman estimates showing the uniqueness and stability for the inverse boundary value problems.
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