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Parametrization of scattering data using genetic algorithm

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Abstract content
   (Max 300 words)

The problem of extracting spectral points(bound and resonant states) from scattering data, obtained experimentally or theoretically, is addressed. A new fitting strategy, incorporating an evolution algorithm, is outlined. The fitting parameters are the coefficients of a semi-analytical expression derived from the multi-channel Jost-matrix done near an arbitrary point on the Riemann surface. The efficiency and accuracy of the suggested expansion and fitting is demonstrated by an example of a one-channel model.

Apply to be
 consider for a student
   award (Yes / No)?

Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Prof. S.A. Rakityansky
rakitsa@up.ac.za
University of Pretoria

Would you like to
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 Proceedings (Yes / No)?

Yes

Primary author: Mr OGUNBADE, Prince Olusegun (University of Pretoria)

Co-author: Prof. RAKITYANSKI, Sergei (University of Pretoria)

Presenter: Mr OGUNBADE, Prince Olusegun (University of Pretoria)

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