Research PhD position which is a part of the grant NCN SONATA BIS
Nonlinear equations involving the curl-curl operator

It is expected that the PhD student will actively conduct research in the area of nonlinear curl-curl problems, which are motivated by nonlinear Maxwell equations and the Born-Infeld theory. The successful candidate will be a member of the active research team working in the project described on the website www.mat.umk.pl/~mastem. As part of international cooperation, e.g. with the centers in Italy and Germany the candidate will participate, among others in conferences, scientific stays and schools.

The successful candidate will undertake doctoral studies at a doctoral school in Poland. Suggested school: Warsaw Doctoral School of Mathematics and Computer Science (WSDMI) jointly led by University of Warsaw and Institute of Mathematics of the Polish Academy of Sciences
https://irk.uw.edu.pl/en-gb/offer/SzD2020/programme/3-SzD-NSP-WSDMI/.

Qualifications: Master's degree (or equivalent) in mathematics, physics or computer science. The candidates should demonstrate good knowledge of mathematical analysis, functional analysis and partial differential equations.

Work conditions:

- Scholarship contract for 34 months starting from 1 October 2020. The condition for receiving the scholarship is to undertake doctoral studies at a doctoral school in Poland from 1 October 2020 as part of the qualification procedure, e.g
  https://irk.uw.edu.pl/en-gb/offer/SzD2020/programme/3-SzD-NSP-WSDMI/.
- scholarship 4000 PLN per month. The amount 4000 PLN is tax-free and paid in full and constitutes an additional scholarship to the doctoral scholarship of the doctoral school. For a candidate who is not enrolled in the doctoral school WSDMI according to the standard qualification procedure, there is a possibility of getting to the doctoral school as part of the funds of this scholarship. In this case the above amount will be reduced by the costs associated with servicing the doctoral school, social security contributions, etc.
- in addition to the scholarship, a doctoral student has the right to apply for additional funding from other funds.
- for additional information please contact the grant director
  dr hab. Jarosław Mederski, prof. IM PAN, email: jmederski@impan.pl.

Required application documents:

- CV.
- description of scientific interests.
- description of scientific achievements, awards and distinctions.
- list of publications, talks during conferences and seminars.

The above documents should be sent by **June 28, 2020** to the grant director jmederski@impan.pl. The competition results will be announced as soon as possible, but on August 31, 2020 at the latest.

During recruitment, the selection board reserves the right to conduct interviews with candidates (in the form of a teleconference) only with selected candidates. The scholarship will be awarded in accordance with the regulations available in the Annex to the Council Resolution NCN 96/2016 of October 27, 2016 https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala96_2016-zal1.pdf

DYREKTOR
Instytutu Matematycznego PAN

Prof. dr hab. Łukasz Stettner