

POINTWISE ESTIMATES AND RELATED TECHNIQUES FOR HYBRIDIZABLE NUMERICAL METHODS

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ABSTRACT

Pointwise estimates and related techniques ($W^{1,p}$ estimates, etc) are important in numerical analysis of partial differential equations. They are not only critical in pointwise tracking optimal control, but also applicable in several nonlinear PDEs (incompressible Magnetohydrodynamics, etc). In this minisymposium, speakers will focus on pointwise estimates and related techniques for hybridizable numerical methods like hybridizable discontinuous Galerkin method, hybrid high-order method, virtual element method, etc. We would like to emphasize that due to the non-conformity of these numerical methods, significant theoretic difficulties may rise, such that these estimates for hybridizable numerical methods are not simple analogues of those of conforming methods.

Organizers of minisymposium (MS) proposals are requested to submit an abstract (maximum 2 pages) no later than **July 31, 2026**, following the format provided in this template.

The abstract should briefly describe the content and objectives of the session, as well as include a list of prospective speakers and tentative titles.

For practical reasons, each MS must have a Corresponding Organizer, who will submit the MS proposal and act as the main point of contact with the Conference Secretariat. One or more Co-organizers may also be designated.

For any further inquiries, please contact the Conference Secretariat at:
icosahom2027_sec@cimne.upc.edu

SPEAKERS

1. Huadong Gao (Huazhong U. of Science & Technology, China): Professor.
2. Rekha Khot (IIT Palakkad, Kerala, India): Assistant Professor.
3. Simon Lemaire (Inria (Lille, France)): Tenured Researcher (CRCN).
4. Haitao Leng (Guangzhou University, China): Associate Professor.
5. Chupeng Ma (Great Bay University, China): Assistant Professor.
6. David Mora (Universidad del Bío-Bío): Professor.
7. Manuel Solano (Universidad de Concepcion, Chile): Associate Professor.
8. Yupei Xie (Weierstrass Institute, Germany): Postdoc.