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1. Bir, B. and Goswami, D. On a three step two-grid finite element method for the Oldroyd model of order one. *ZAMM - Journal of Applied Mathematics and Mechanics/Zeitschrift fr Angewandte Mathematik und Mechanik*, 101(11): e202000373, 2021.

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List of Papers Communicated/Under Preparation

1. Bir, B., Goswami, D., and Pani, A. K. Optimal L^2 error estimates of the penalty finite element method for the unsteady Navier-Stokes equations with nonsmooth initial data, *Preprint*, 2022.

2. Bir, B. and Goswami, D. A finite element method for the equations of motion arising in Oldroyd model of order one with grad-div stabilization, *Preprint*, 2022.

3. Bir, B. and Goswami, D. A nonconforming finite element method for Oldroyd model of order one, *Under Preparation*.

List of Conference Presentations

1. Bir, B. and Goswami, D. Three level two-grid finite element methods for Oldroyd model of order one for nonsmooth initial data. *International Conference on Applied Mathematics in Science and Engineering (AMSE-2019)*, Siksha 'O' Anusandhan, Bhubaneswar, India, October 24-26, 2019.

2. Bir, B. and Goswami, D. A finite element method for the equations of motion arising in Oldroyd model of order one with grad-div stabilization. *International Conference on Advances in Differential Equations and Numerical Analysis (ADENA-2020)*, Department of Mathematics, IIT Guwahati, India, October 12-15, 2020.

3. Bir, B. and Goswami, D. An incremental pressure correction finite element method for the Oldroyd model of order one. *International Conference on Emerging trends in Pure and Applied Mathematics*, Department of Applied Sciences, School of Engineering in association with Department of Mathematical Sciences, School of Sciences, Tezpur University, Assam, India, March 12-13, 2022.

4. Bir, B., Goswami, D., and Pani, A. K. Penalty finite element method for unsteady Navier-Stokes equations. *International Conference on Applied Mathematics in Science and Engineering (AMSE-2022)*, Siksha 'O' Anusandhan, Bhubaneswar, India, March 24-26, 2022.

5. Bir, B., Goswami, D., and Pani, A. K., A Penalized Finite Element Method for the Oldroyd Model, *International Conference on Computational Partial Differential Equations and Applications (ICCPDEA-2022)*, BML Munjal University, India, 6th to 8th September, 2022.