

# A locally conservative hybridized discontinuous element method for the Oseen equations

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## ABSTRACT

In this talk we will discuss a locally conservative hybridized discontinuous element method for the Oseen equations. The hybridized discontinuous element method has been successfully applied to elliptic problems and Stokes problem. This method has an embedded conservation property and reduces a lot of global degrees of freedom. We propose an upwind version of hybridized discontinuous element method with Baumann-Oden type local solver. Some numerical examples are presented to show the performance of the method.

## REFERENCES

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