Serendipity Virtual Element Methods

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ABSTRACT

We review the construction of Serendipity Virtual Element spaces of different type: Nodal, Edge, Face. The use of Serendipity spaces allows to save many degrees of freedom internal to elements and, for polyhedrons, also internal to faces. The gain is more relevant for polyhedrons (and polygons) with many faces (resp: edges). The elimination of the degrees of freedom internal to faces is particularly important, as this cannot be easily achieved by static condensation

REFERENCES

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