

BENCH OF ANISOTROPIC PROBLEMS

INSERT TITLE OF THE ARTICLE

LOGO1

LOGO2

INSERT authors names

INSERT address of the authors

Description of the scheme

INSERT here the description of the scheme

Results for Test 1.1

 $umin = 0.0, umax = 1.0$.

- Triangular mesh **mesh1** $\rightsquigarrow \text{ocvl2}=??, \text{ocvgradl2}=??$.

i	nunkw	nnmat	sumflux	erl2	ergrad	ratio12	ratiograd
1							
2							
3							
4							
5							
6							
7							

i	erflx0	erflx1	erfly0	erfly1	erflm	umin	umax
1							
2							
3							
4							
5							
6							
7							

- Distorted quadrangular mesh **mesh4_j_i**

grid	i	nunkw	nnmat	sumflux	erl2	ergrad
C	1					
F	2					

grid	i	erfls0	erflx1	erfly0	erfly1	erflm	umin	umax
C	1							
F	2							

- Comments

Results for Test 1.2

 $umin = 0.0, umax = 1 + \sin(1)$.

- Triangular mesh **mesh1** $\rightsquigarrow \text{ocvl2}=??, \text{ocvgradl2}=??$.

i	nunkw	nnmat	sumflux	erl2	ergrad	ratio12	ratiograd
1							
2							
3							
4							
5							
6							
7							

i	erflx0	erflx1	erfly0	erfly1	erflm	umin	umax
1							
2							
3							
4							
5							
6							
7							

- Locally refined mesh **mesh3** $\rightsquigarrow \text{ocvl2}=??, \text{ocvgradl2}=??$.

i	nunkw	nnmat	sumflux	erl2	ergrad	ratio12	ratiograd
1							
2							
3							
4							
5							

i	erflx0	erflx1	erfly0	erfly1	erflm	umin	umax
1							
2							
3							
4							
5							

- Comments

Results for Test 2 Numerical locking

Triangular mesh **mesh1**. $umin = -1, umax = 1$.

- $\delta = 10^5 \rightsquigarrow \text{ocvl2}=??, \text{ocvgradl2}=??$.

i	nunkw	nnmat	sumflux	erl2	ergrad	ratio12	ratiograd
1							
2							
3							

i	erflx0	erflx1	fly0	fly1	erflm	umin	umax
1							
2							
3							

- $\delta = 10^6 \rightsquigarrow \text{ocvl2}=??, \text{ocvgradl2}=??$.

i	nunkw	nnmat	sumflux	erl2	ergrad	ratio12	ratiograd
1							
2							
3							

i	erflx0	erflx1	fly0	fly1	erflm	umin	umax
1							
2							
3							

- Comments

Results for Test 3 : Oblique flow

 $• \text{Uniform rectangular mesh } \text{mesh2}. \ umin = 0.0, umax = 1.0.$

- Solution on mesh2_i for i=2 (left), i=3 (center), i=4 (right)

INSERT Figure oblique flow

- Comments

Results for Test 4 : Vertical fault

 $• \text{Non conforming rectangular mesh } \text{mesh5}. \ umin = 0.0, umax = 1.0.$

i	nunkw	nnmat	sumflux	erl2	ergrad
1					
2					

i	flux0	flux1	fly0	fly1	ener1	ener2	eren

<tbl