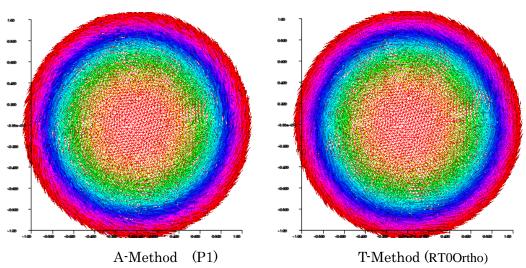
二次元A法とT法の比較

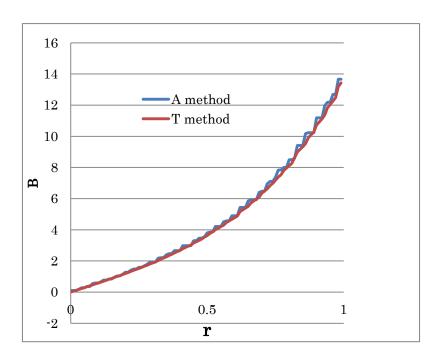


[RT0Ortho] Raviart-Thomas Orthogonal, or Nedelec finite element type I of degree 0 in dimension 2

$$RT0Orthoh = \left\{ v \in H\left(curl\right) \mid \forall K \in T_h, v_{|K}\left(x, y\right) = \begin{vmatrix} \alpha_K^1 + \beta_K \\ \alpha_K^2 \end{vmatrix} \right\}$$
(3.9)







```
// Mesh
real r=1.0;
border a(t=0, 2*pi){x=r*cos(t); y=r*sin(t); label=1;}
mesh disk= buildmesh(a(200));
//plot(disk);
real sigma=1.e6;
real mu=4.e-7*pi;
real nu=1./mu;
real freq=1.0;
real s=2.*pi*freq;
real flux=1.0;
ofstream fid ("output.dat");
// Fespace
fespace femp1(disk, P1);
femp1 u, v;
// Problem
solve Amethod(u, v, solver="CG")
         = int2d(disk)(nu*(dx(u)*dx(v) + dy(u)*dy(v)) + s*sigma*u*v)
         + on(1, u=s*flux)
y=0.;
for(x=0.; x \le r; x + = r/100){
   real by=dx(u);
   cout << "x= "<< x<< " \quad u= "<< \quad u << " \quad by= " << by << endl;
   fid << "x = " << x < " \quad u = " << \quad u << " \quad by = " << by << endl;
}
fespace RT(disk, RT0Ortho);
RT [bx,by]=[-dy(u), dx(u)];
plot([bx,by]);
```