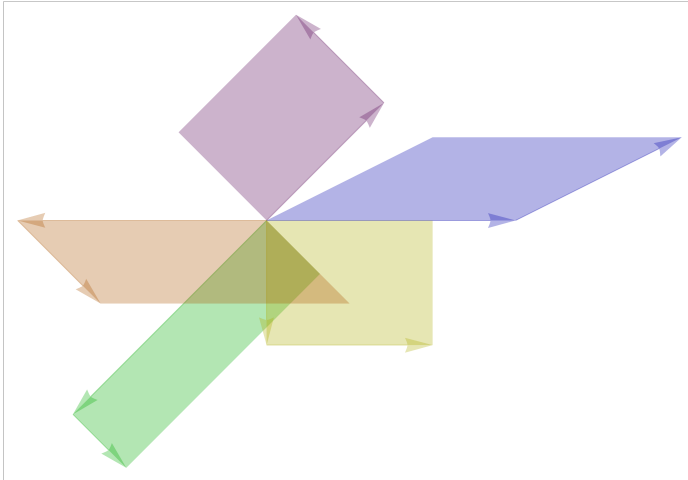

Overlapping parallelograms with fixed areas. Figure: parrallelogramsFig1.eps

```
<< peeters` ;
peeters`setGitDir[ "../project/figures/GAelectrodynamics" ]
/Users/pjoot/project/figures/GAelectrodynamics

ClearAll[parrows, o, e1, e2, parallelogram, p]
o = {0, 0};
e1 = {1, 0};
e2 = {0, 1};
parallelogram[p_, {v1_, v2_}] := Polygon[{p+v1, p+v1+v2, p+v2, p}]
parrows[p_, {v1_, v2_}] := {
  parallelogram[p, {v1, v2}], Arrow[{p, v1}], Arrow[{p+v1, p+v1+v2}]
};
p = Module[{v1, v2, w1, w2, a},
  v1 = 1.5 e1;
  v2 = e1 + e2 / 2 ;
  a = 3 / 4;
  w1 = - (e1 + e2) / Sqrt[2];
  w2 = (e1 - e2) / Sqrt[2];
  Graphics[
    Flatten[
      {
        Opacity[0.3],
        Blue // Darker,
        parrows[o, {v1, v2}],
        Green // Darker,
        parrows[o, {2.2 a w1, w2 / 2.2}],
        Purple // Darker,
        parrows[o, {- w1, -a w2}],
        Yellow // Darker,
        parrows[o, {-a e2, e1}],
        Orange // Darker,
        parrows[o, {-v1, -v2+v1}]
      }, 1]
  ]
]
```



```
peeters`exportForLatex["parrallelogramsFig1", p]  
{parrallelogramsFig1.eps, parrallelogramsFig1pn.png}
```