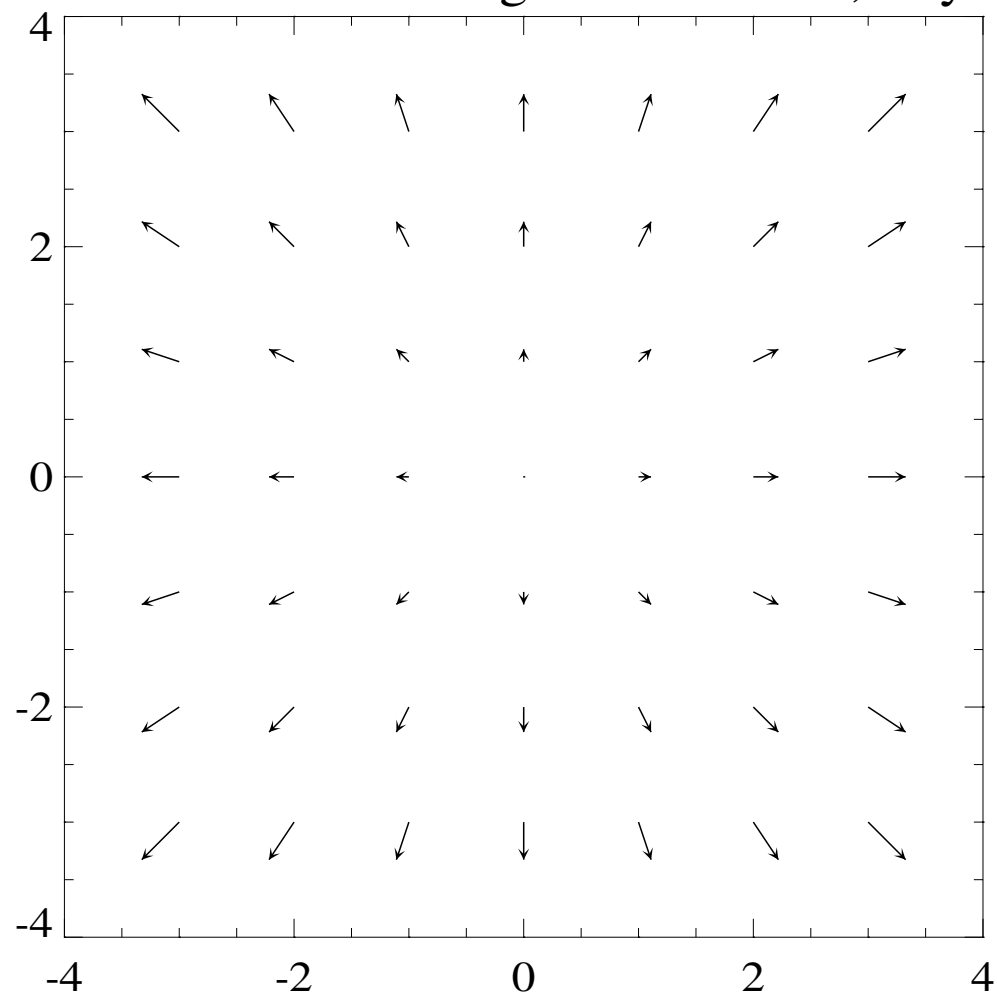
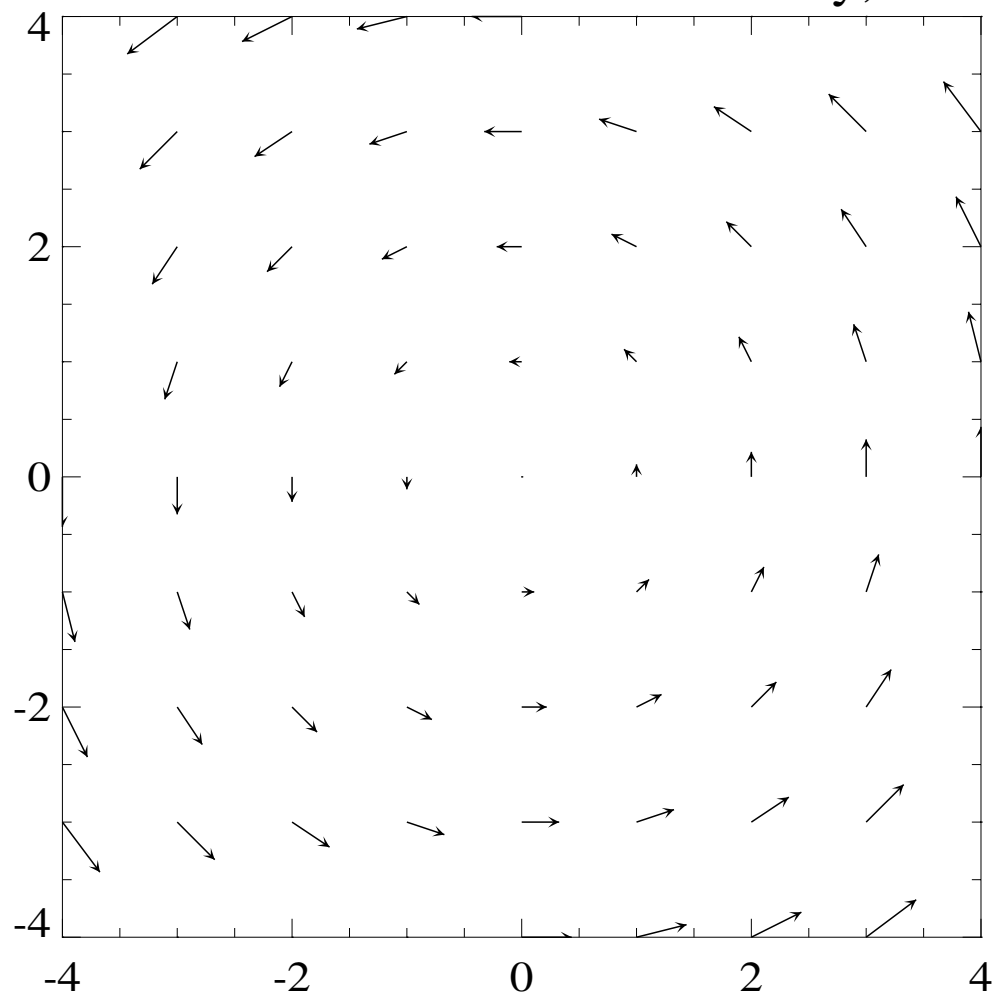


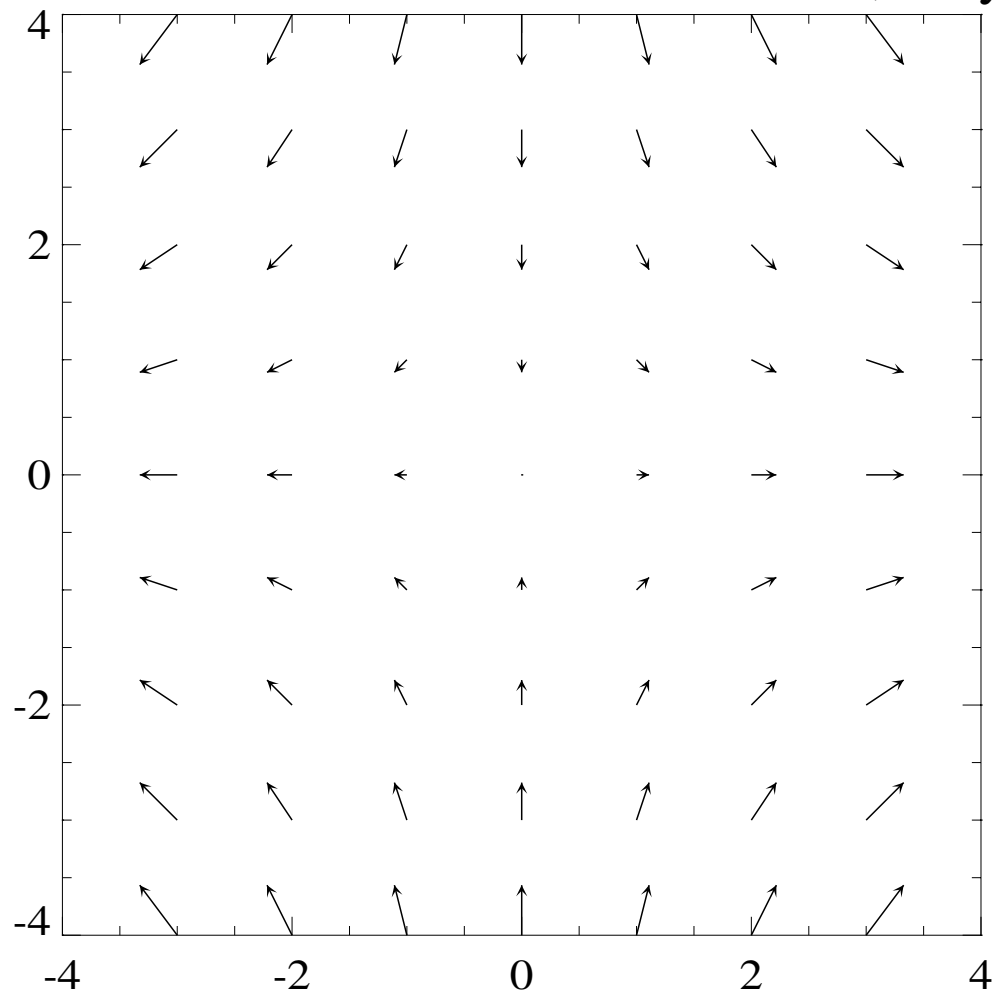
Pure linear divergent flow: $u=x$, $v=y$



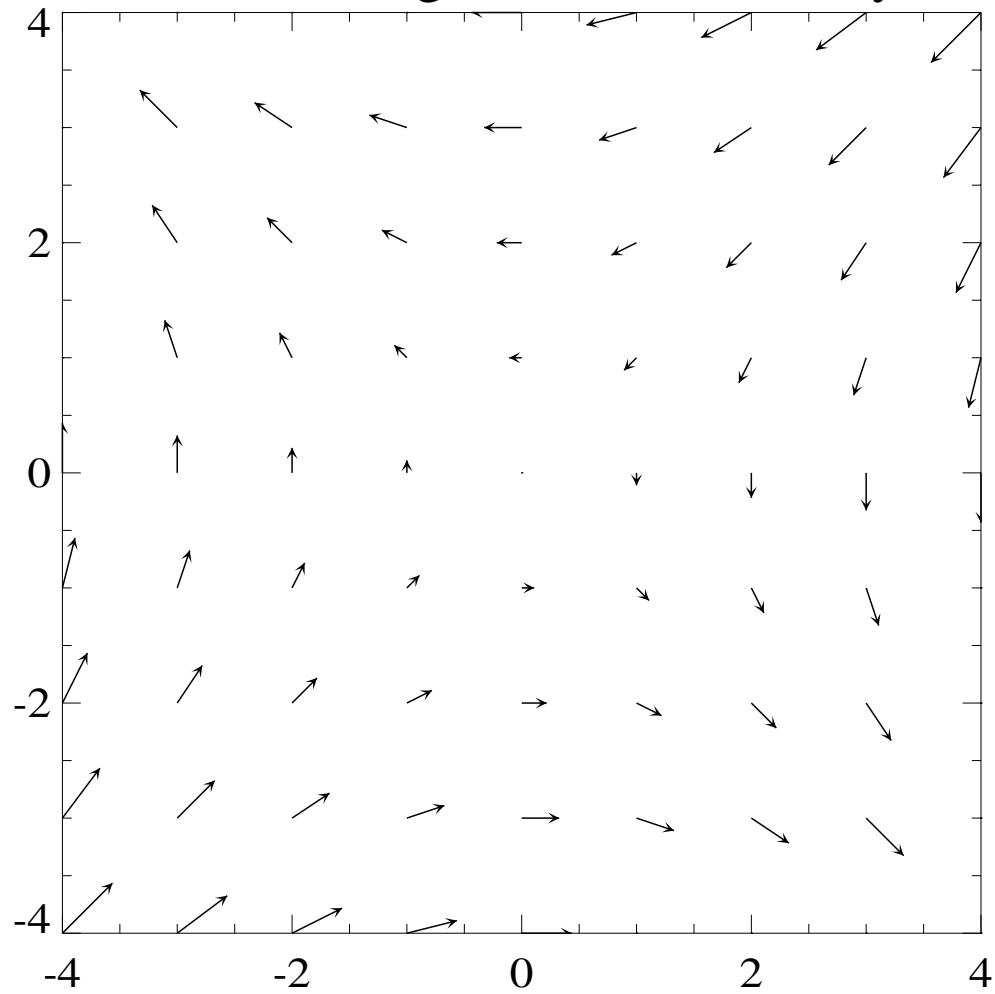
Pure linear rotational flow: $u=-y$, $v=x$



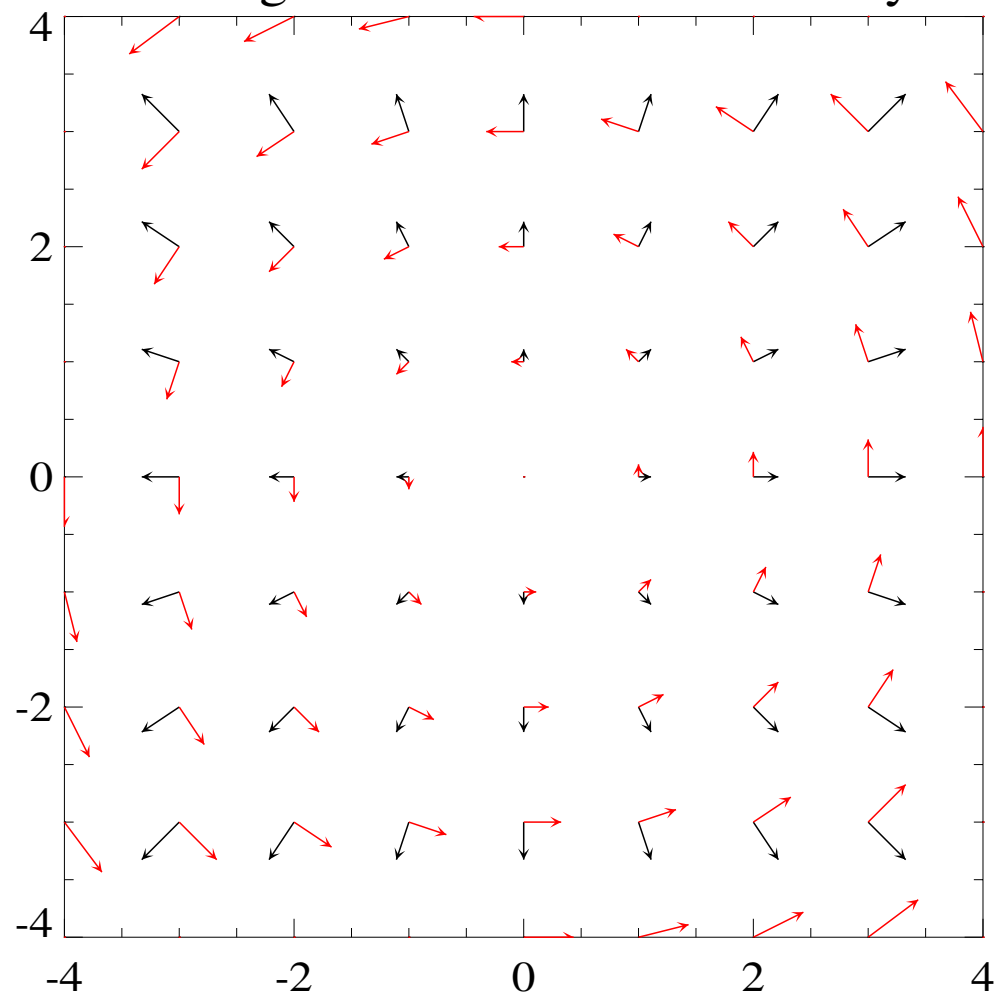
Pure linear deformation flow: $u=x$, $v=-y$



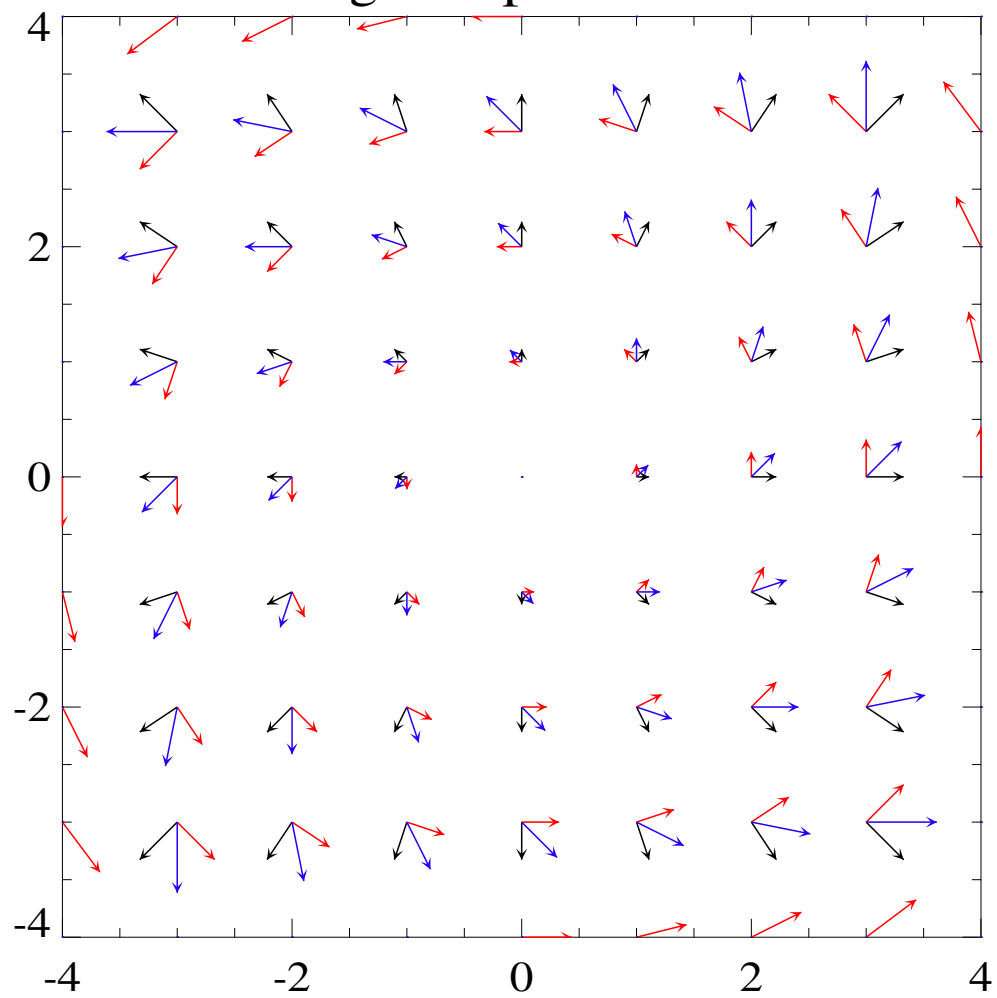
Pure linear 45deg deformation: $u=-y$, $v=-x$



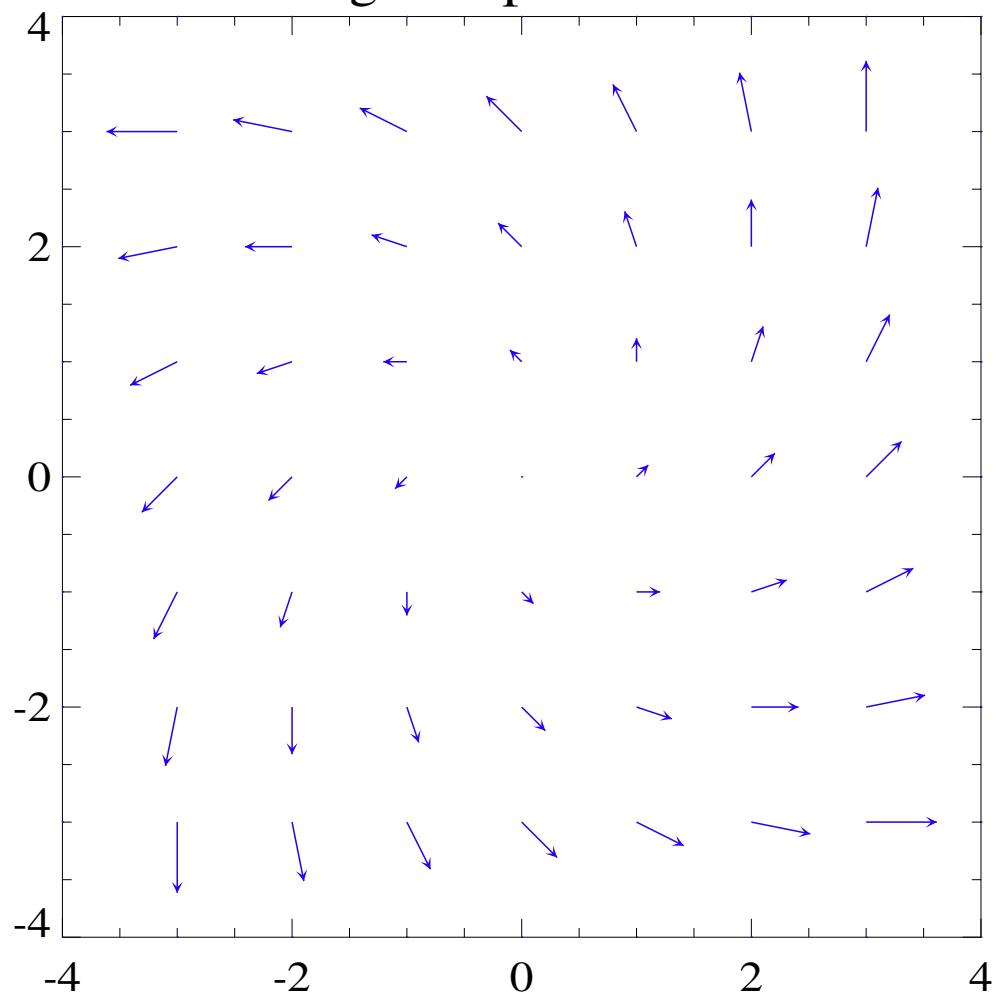
divergence and rotation overlay



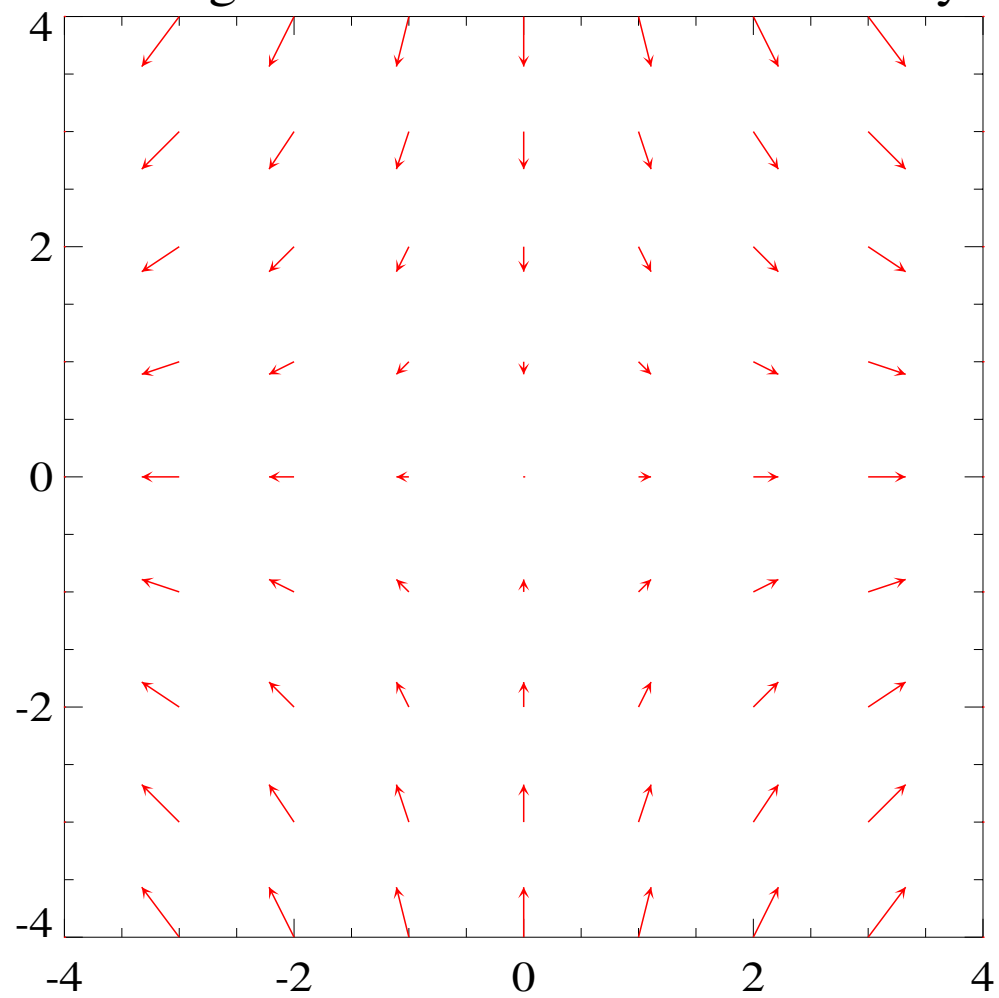
divergence plus rotation



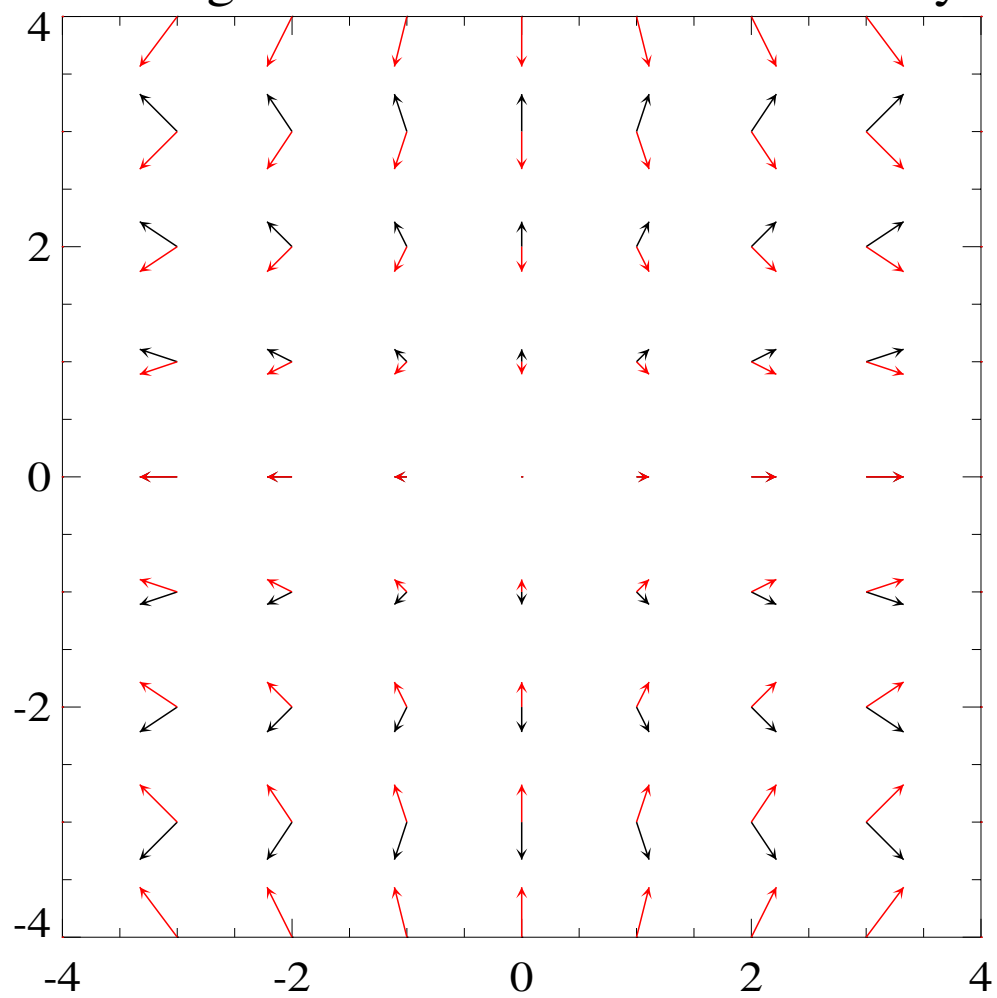
divergence plus rotation



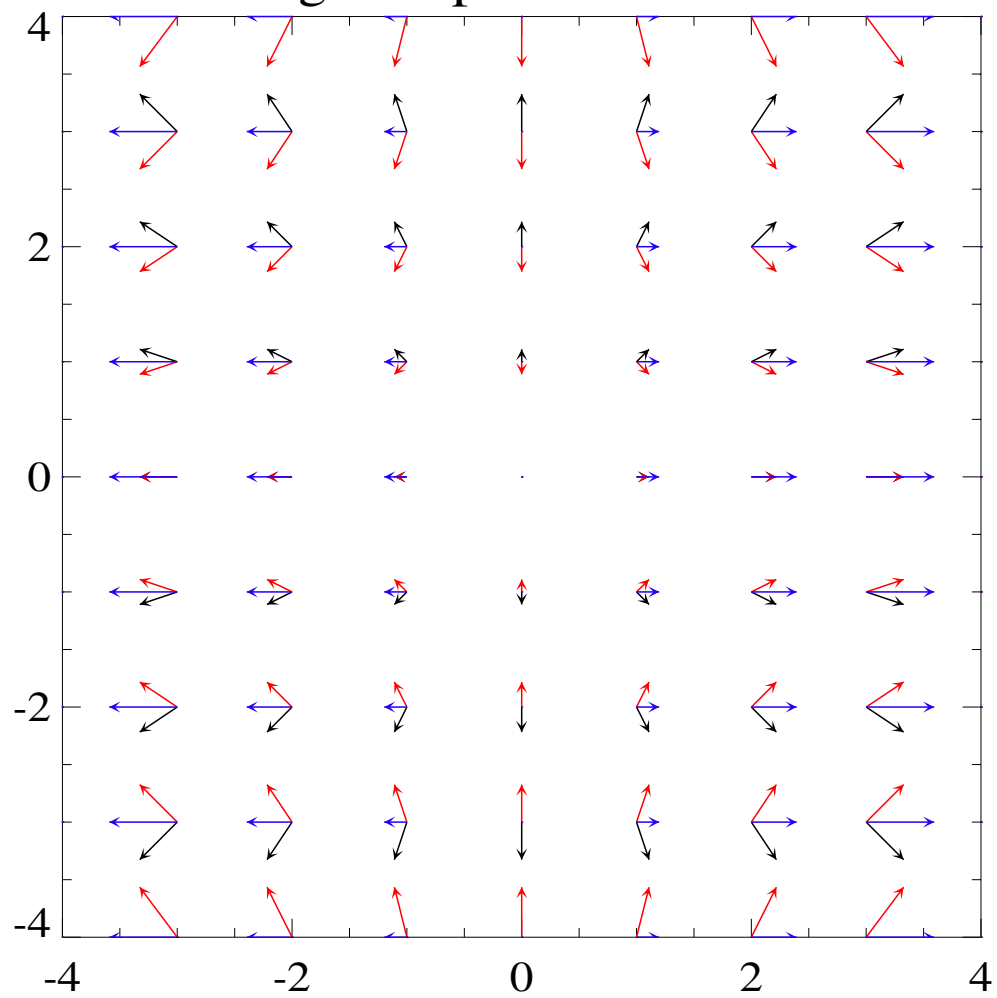
divergence and deformation overlay

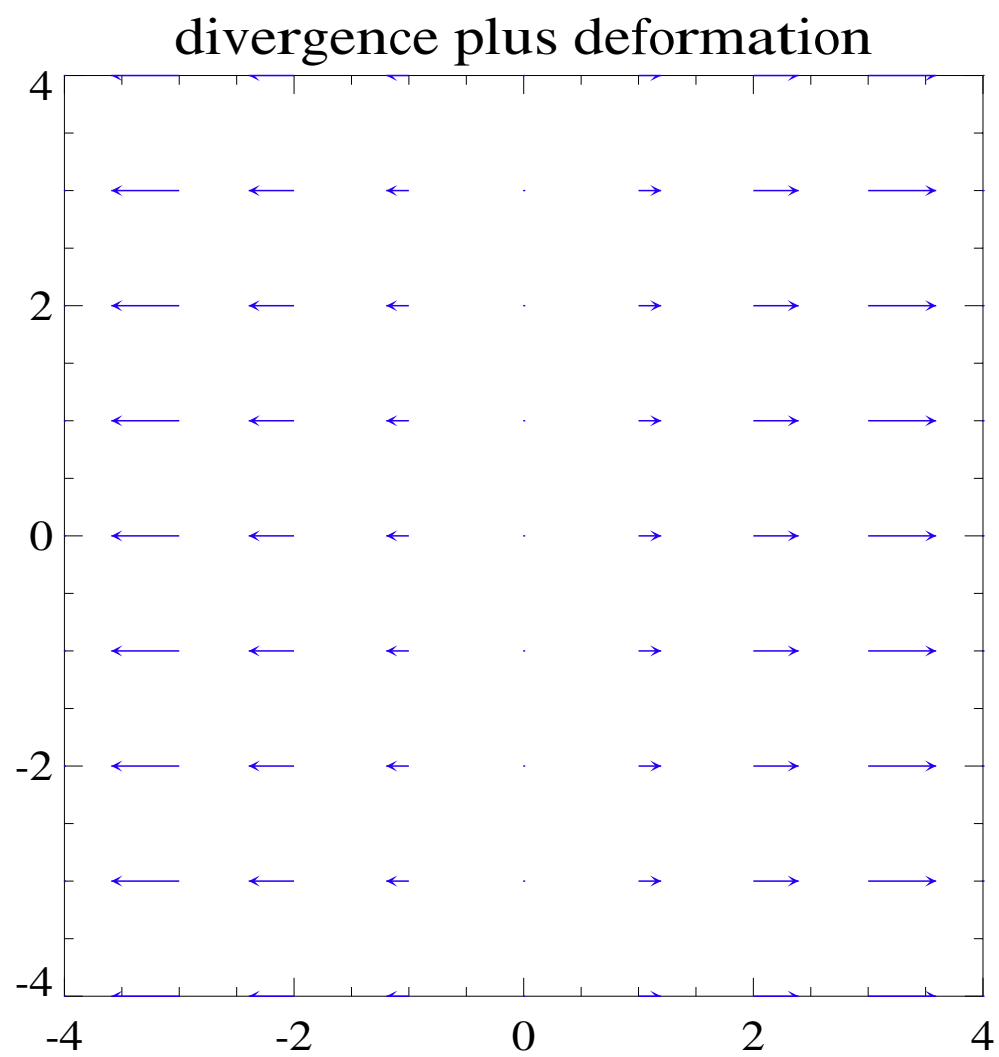


divergence and deformation overlay

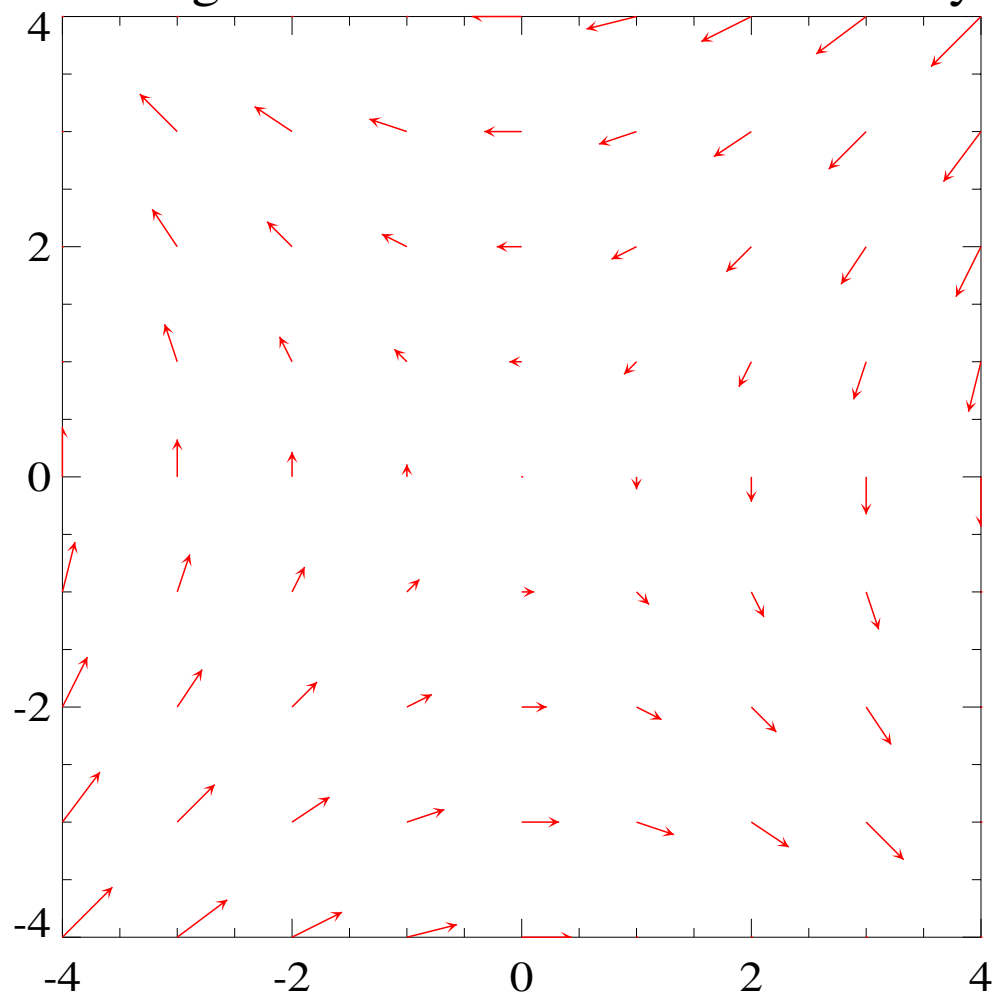


divergence plus deformation

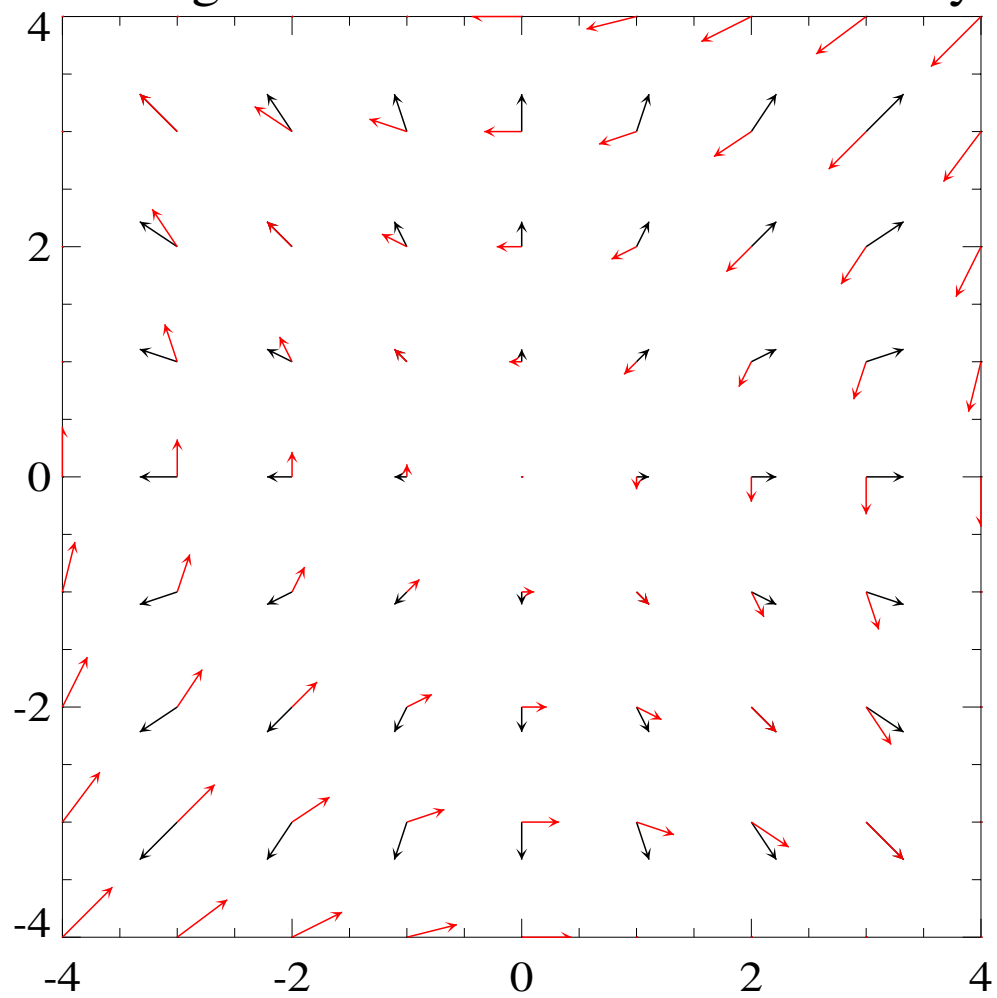




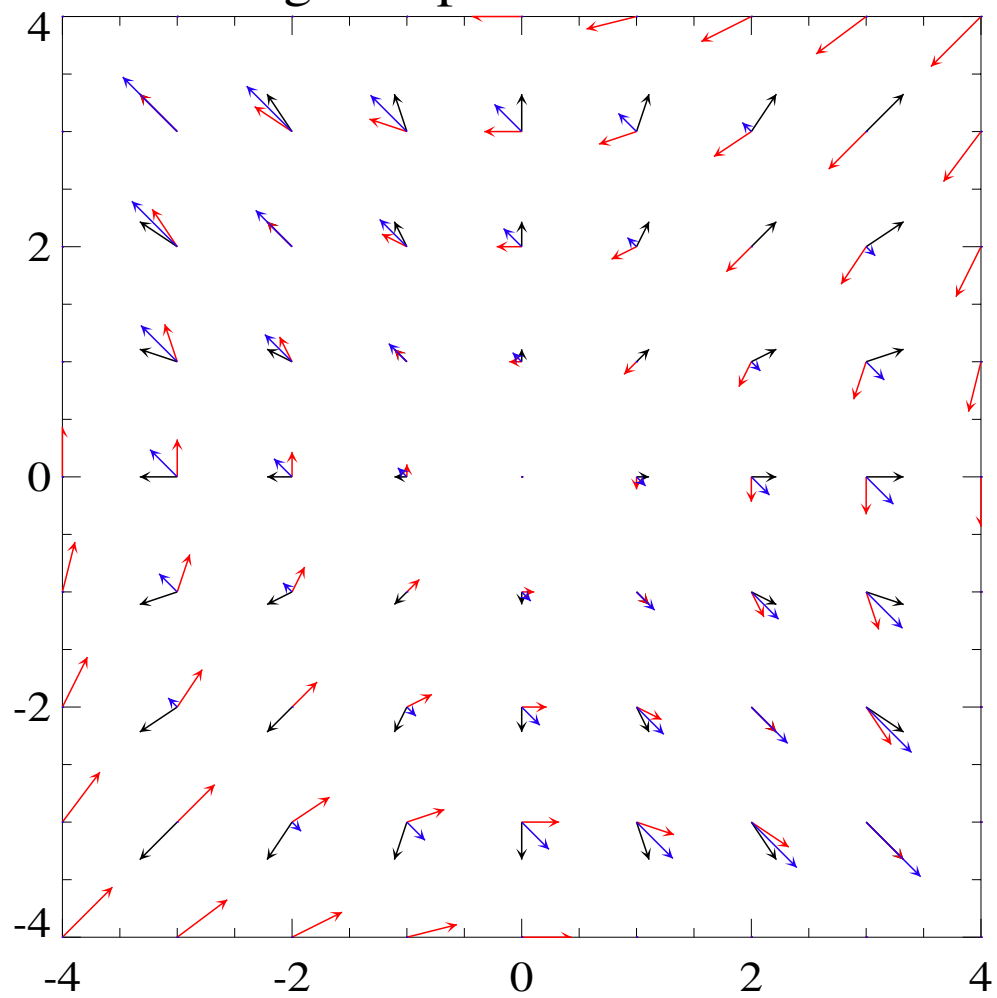
divergence and deformation2 overlay



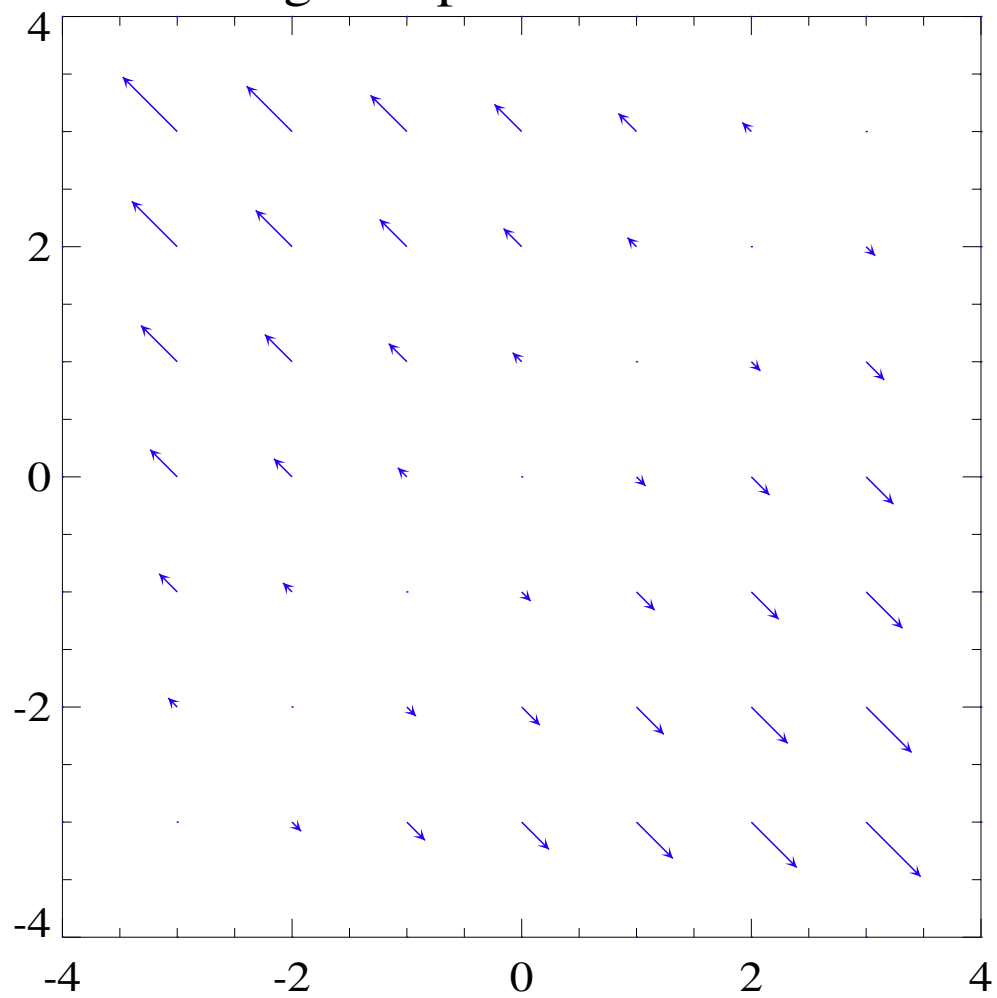
divergence and deformation2 overlay



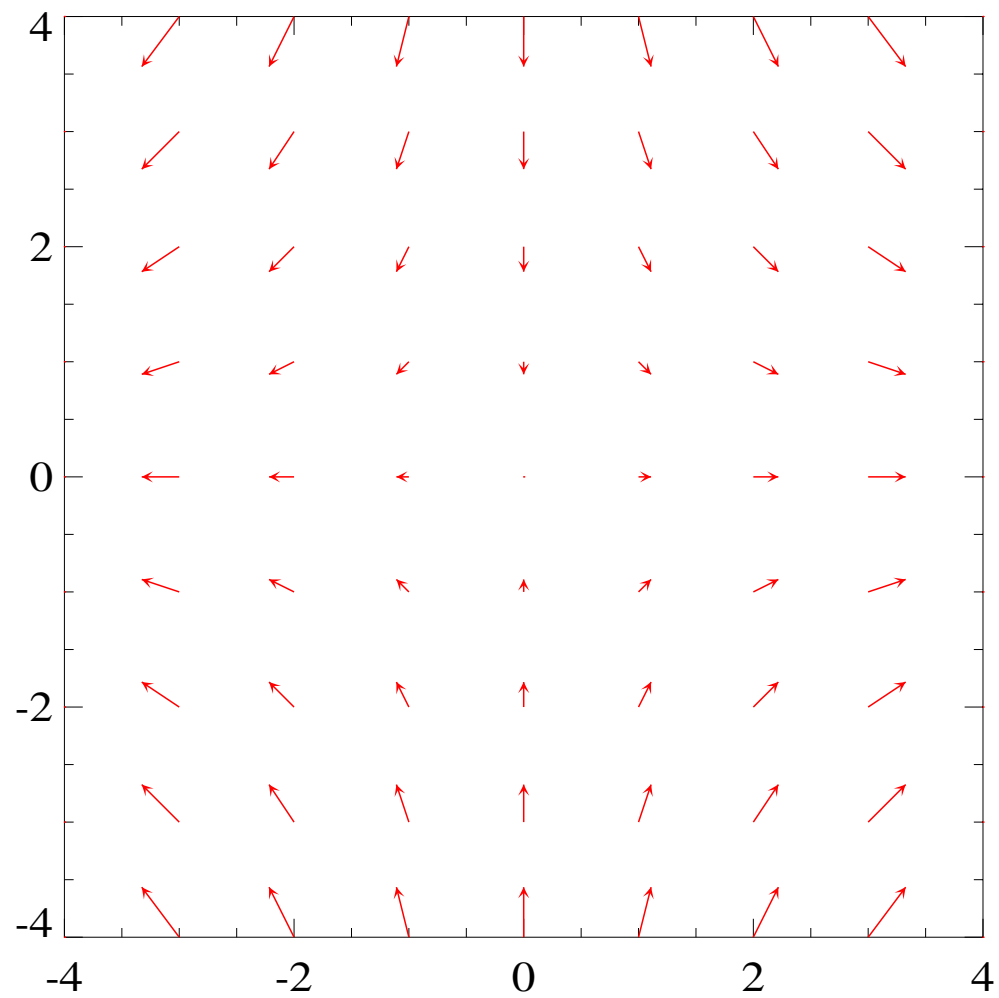
divergence plus deformation2



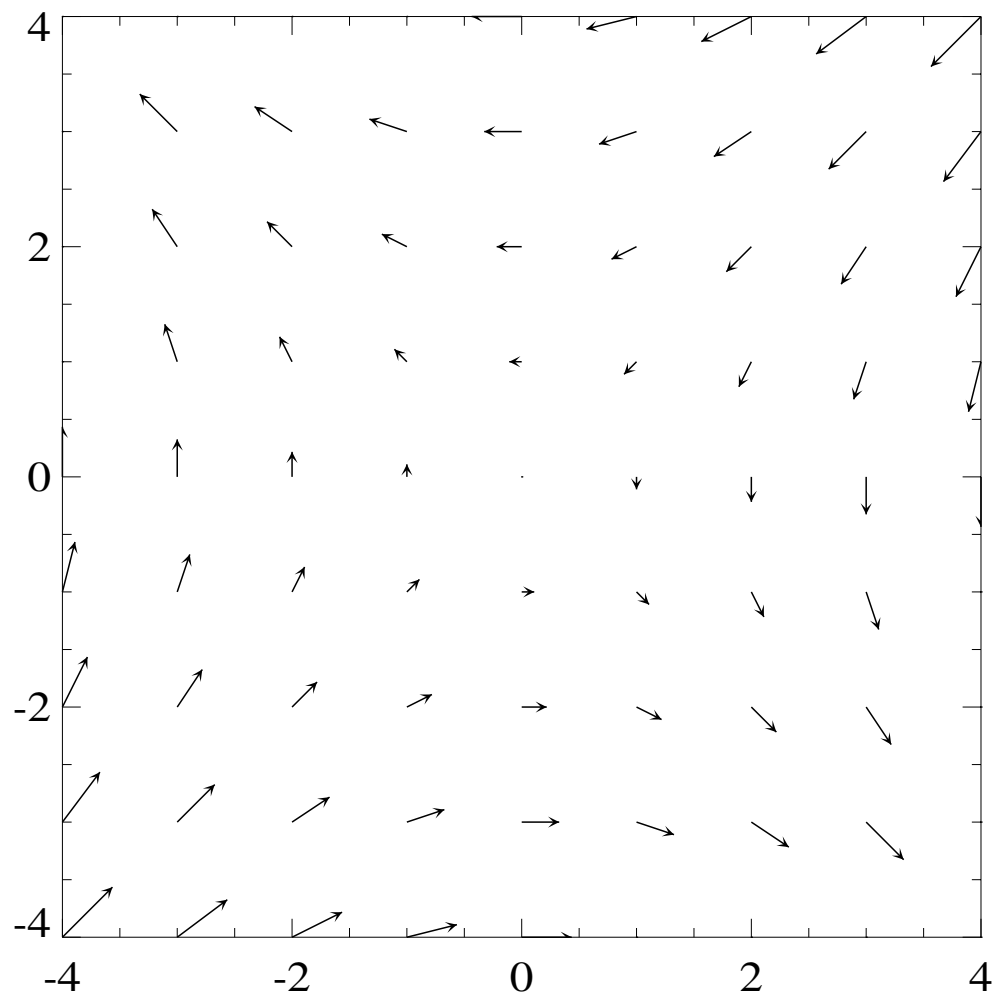
divergence plus deformation2



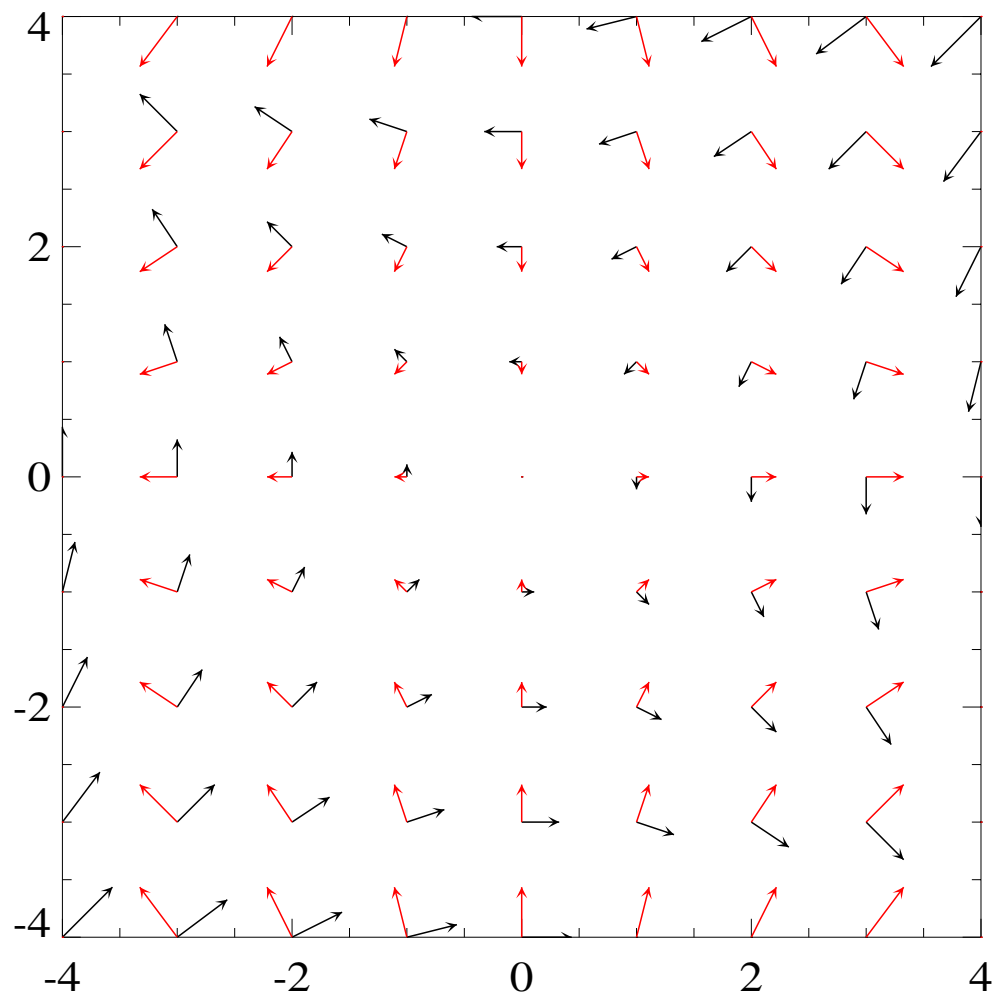
deformation and deformation2



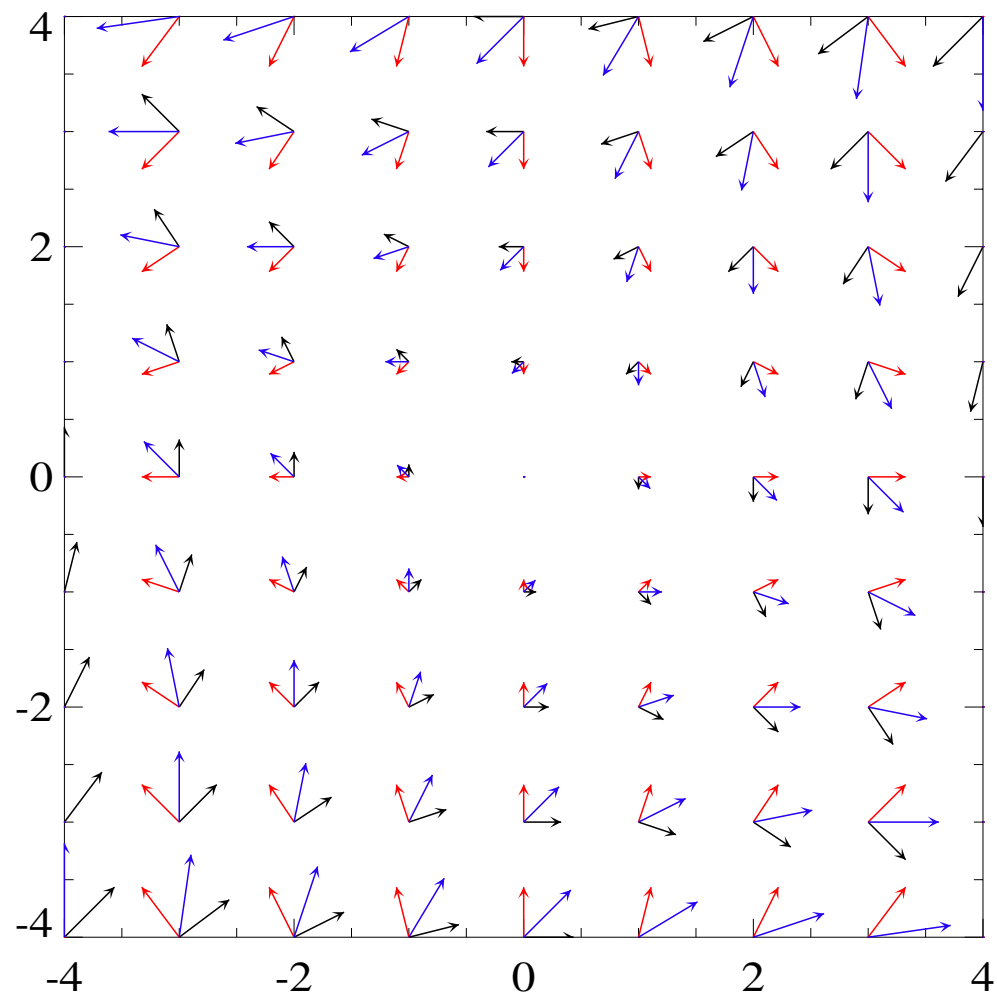
deformation and deformation2



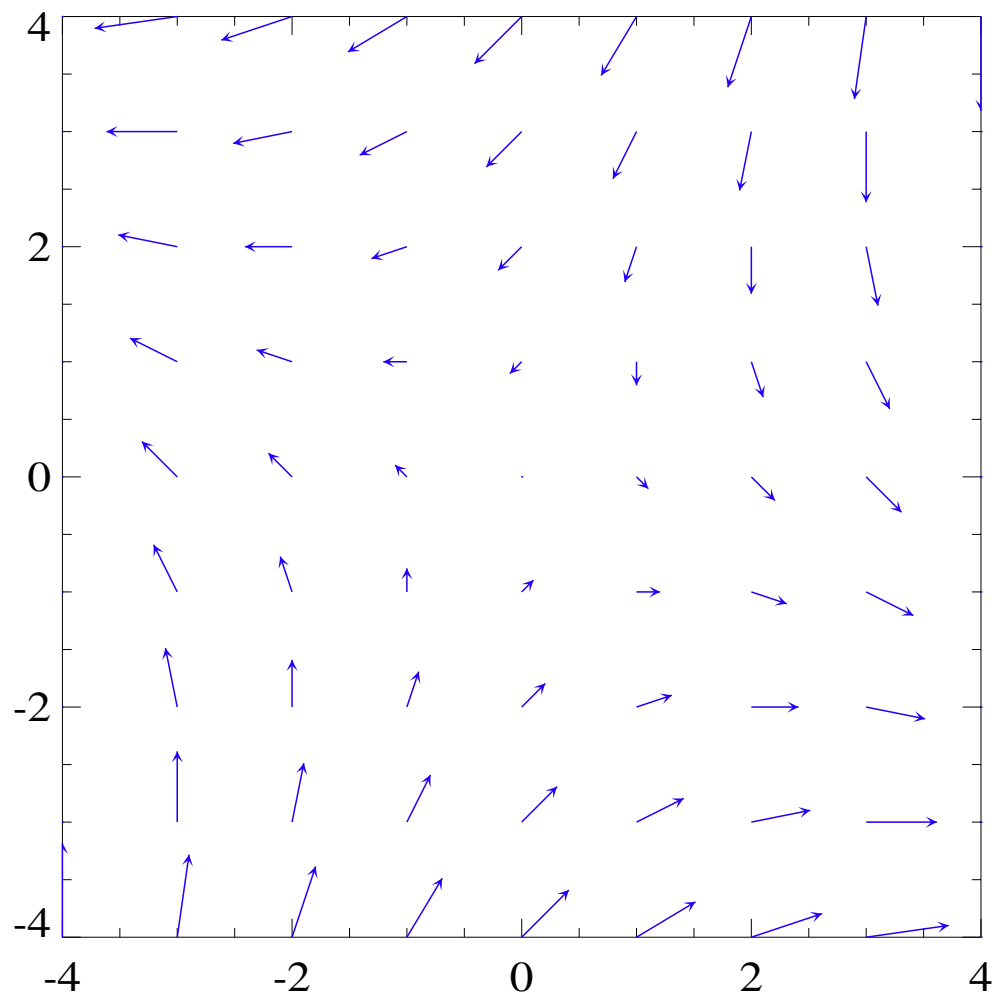
deformation and deformation2



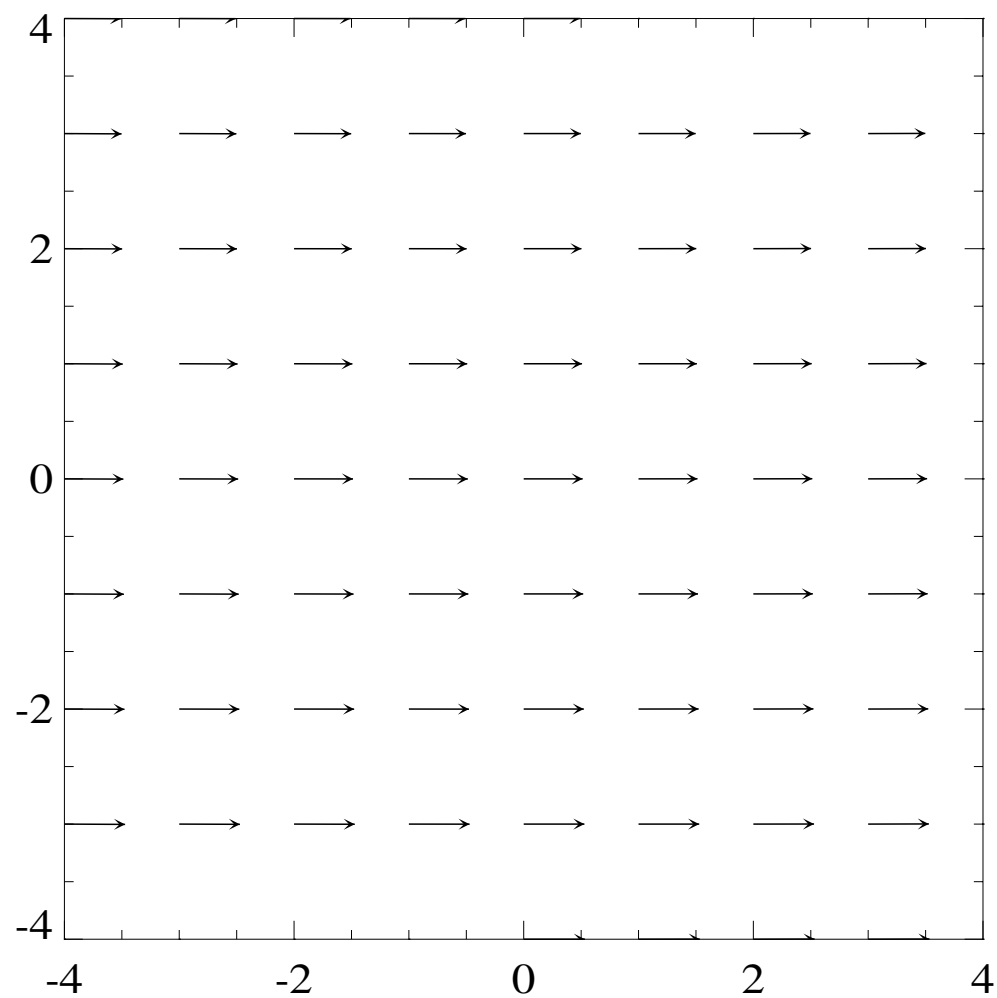
deformation + deformation2



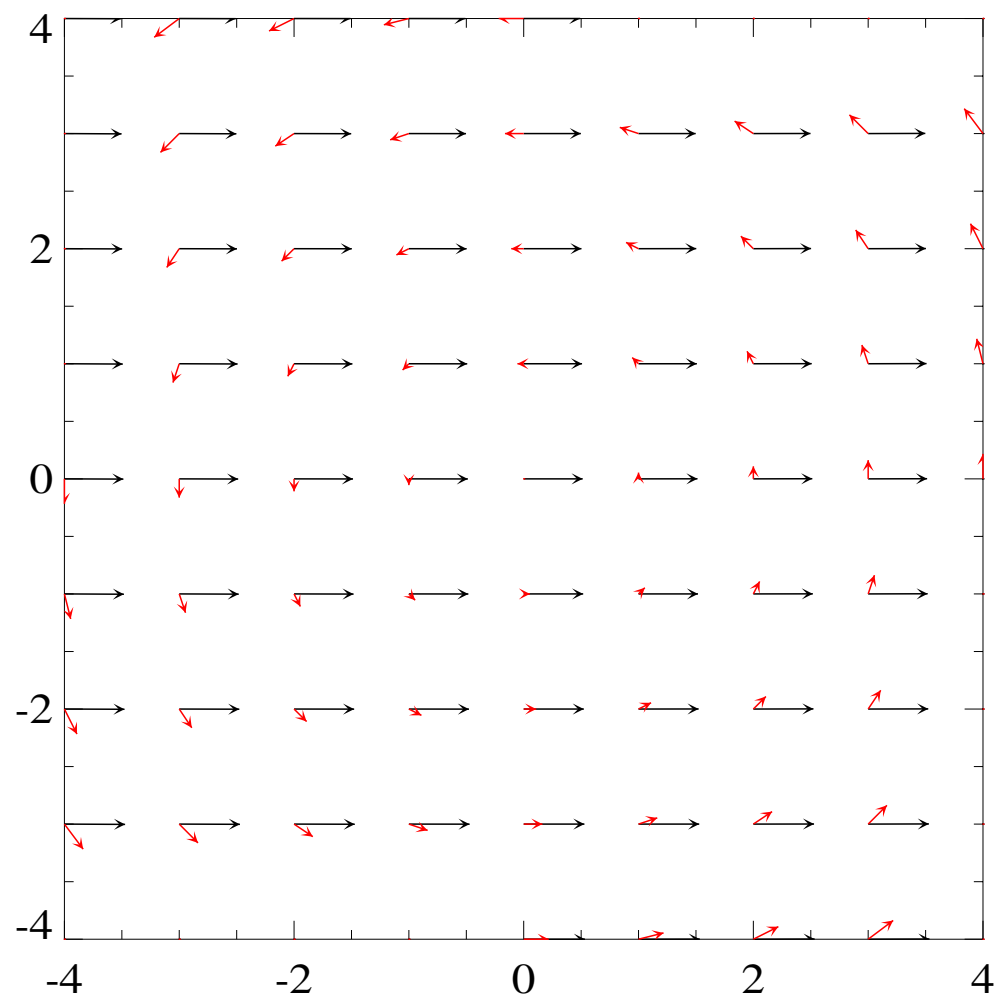
deformation + deformation2



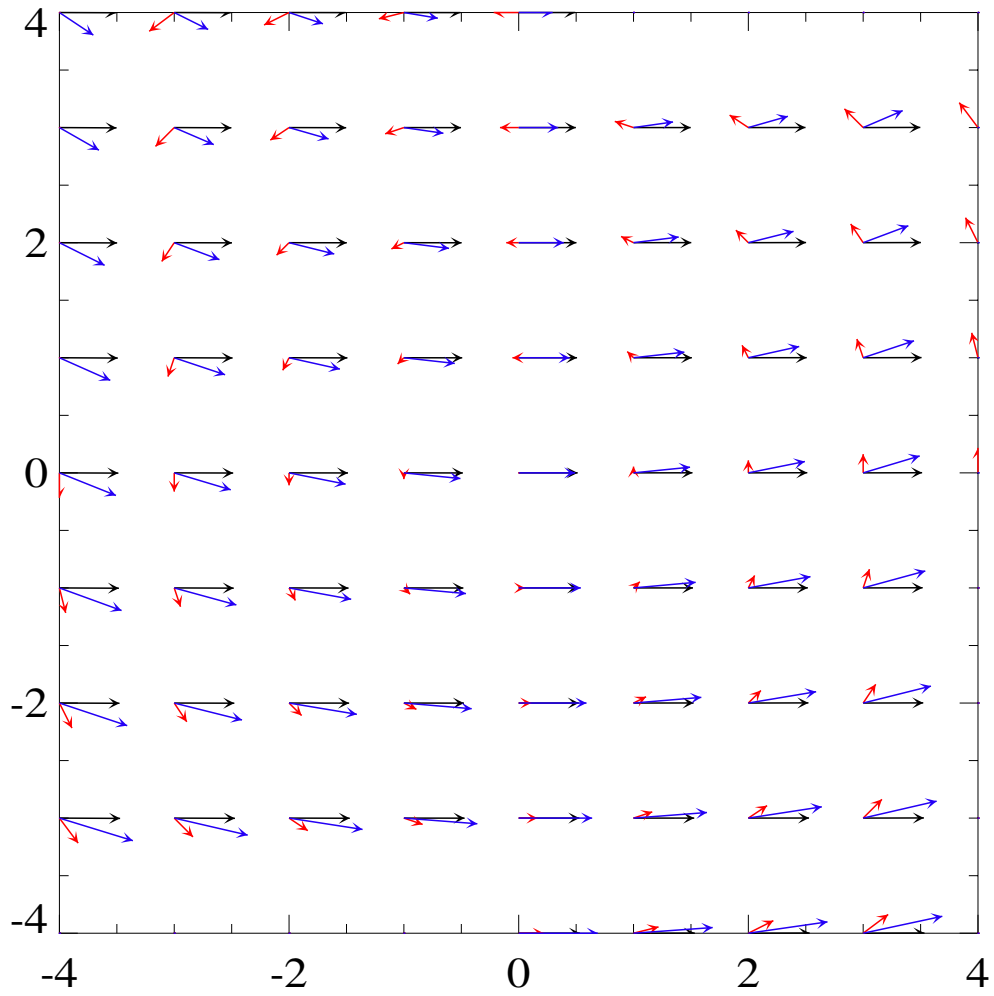
constant wind & rotation



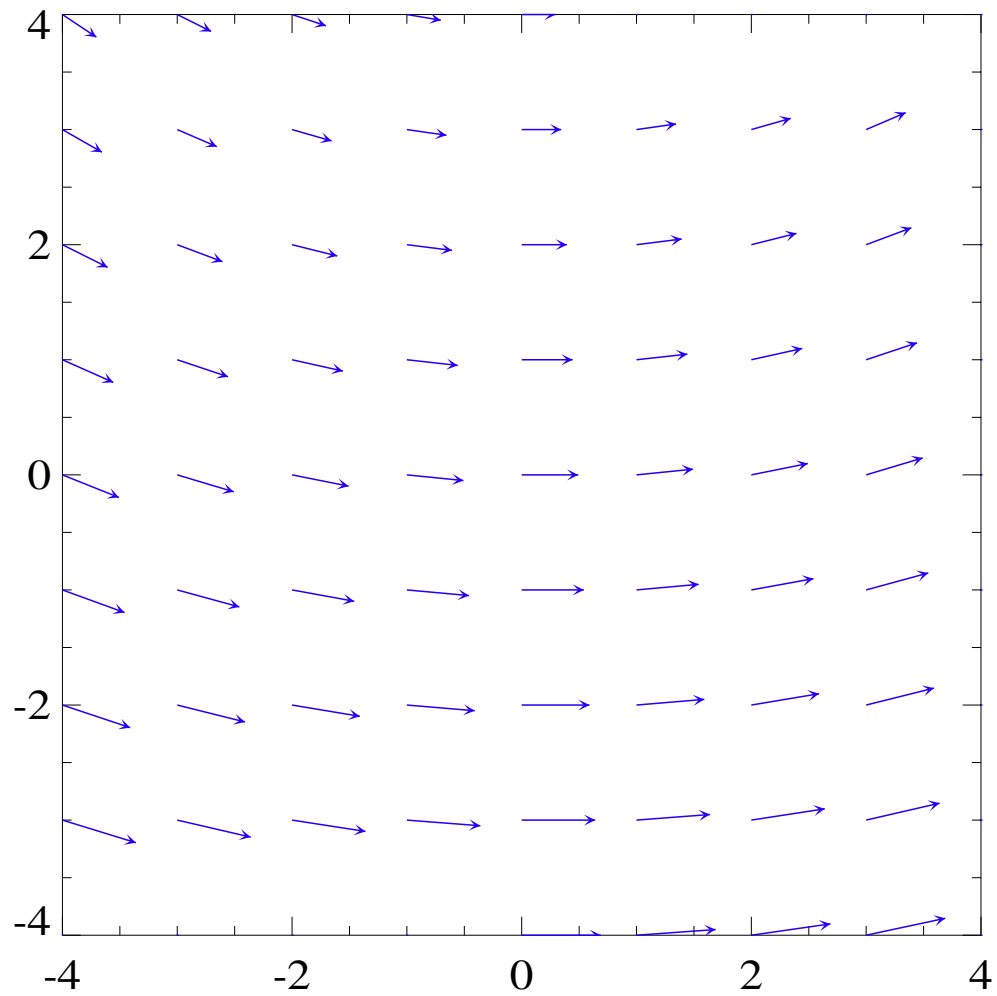
constant wind & rotation



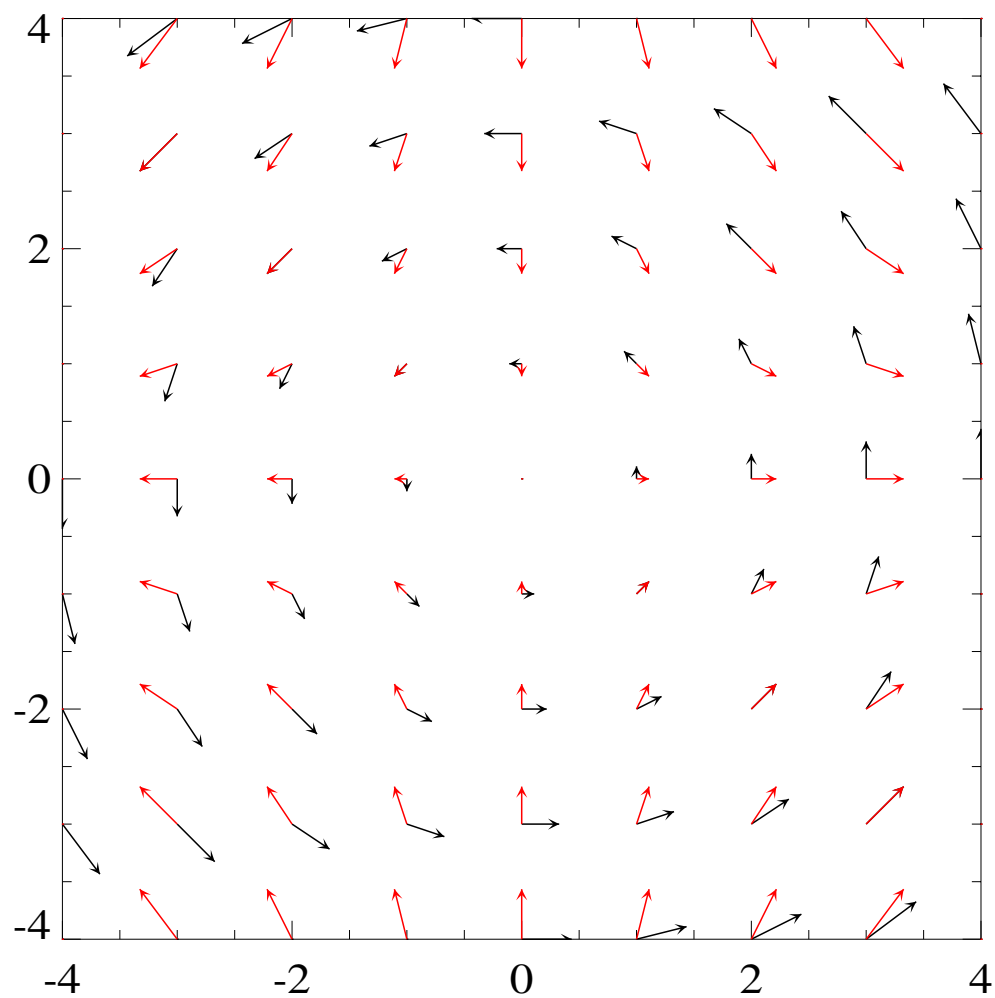
constant wind + rotation



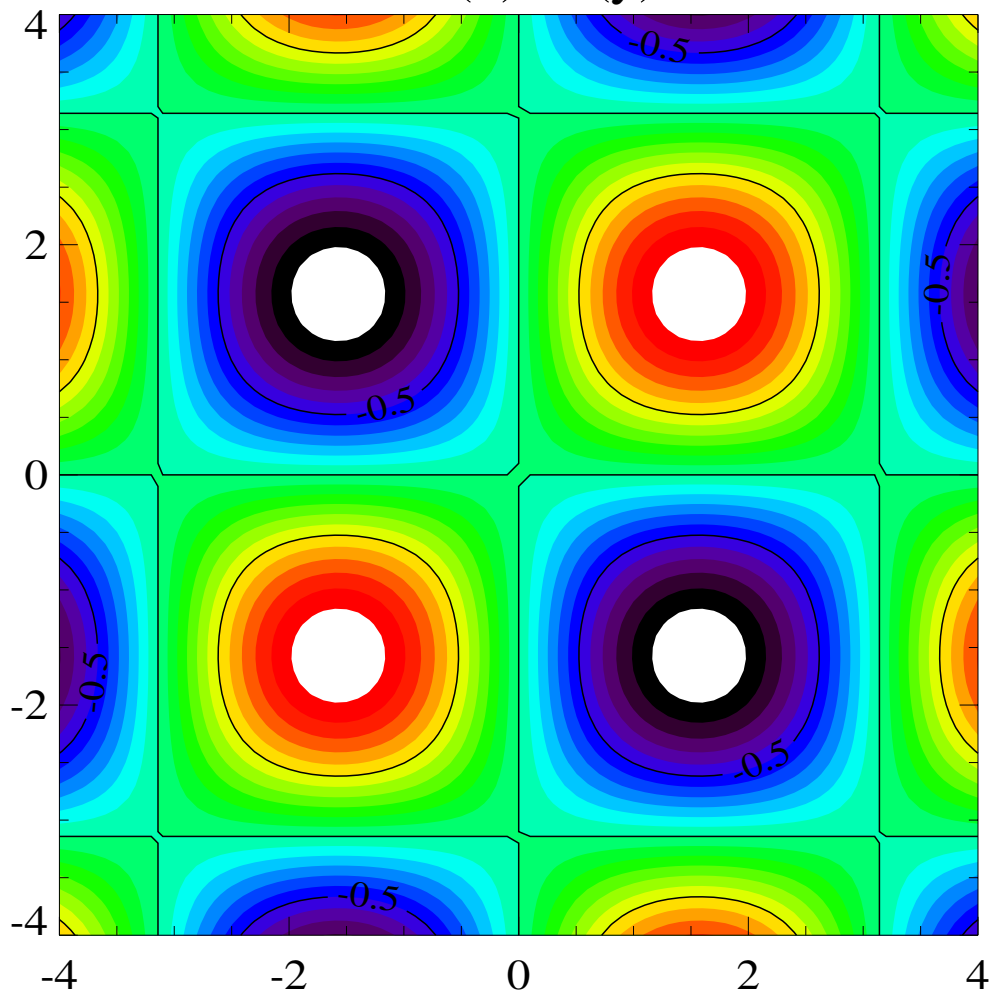
constant wind + rotation



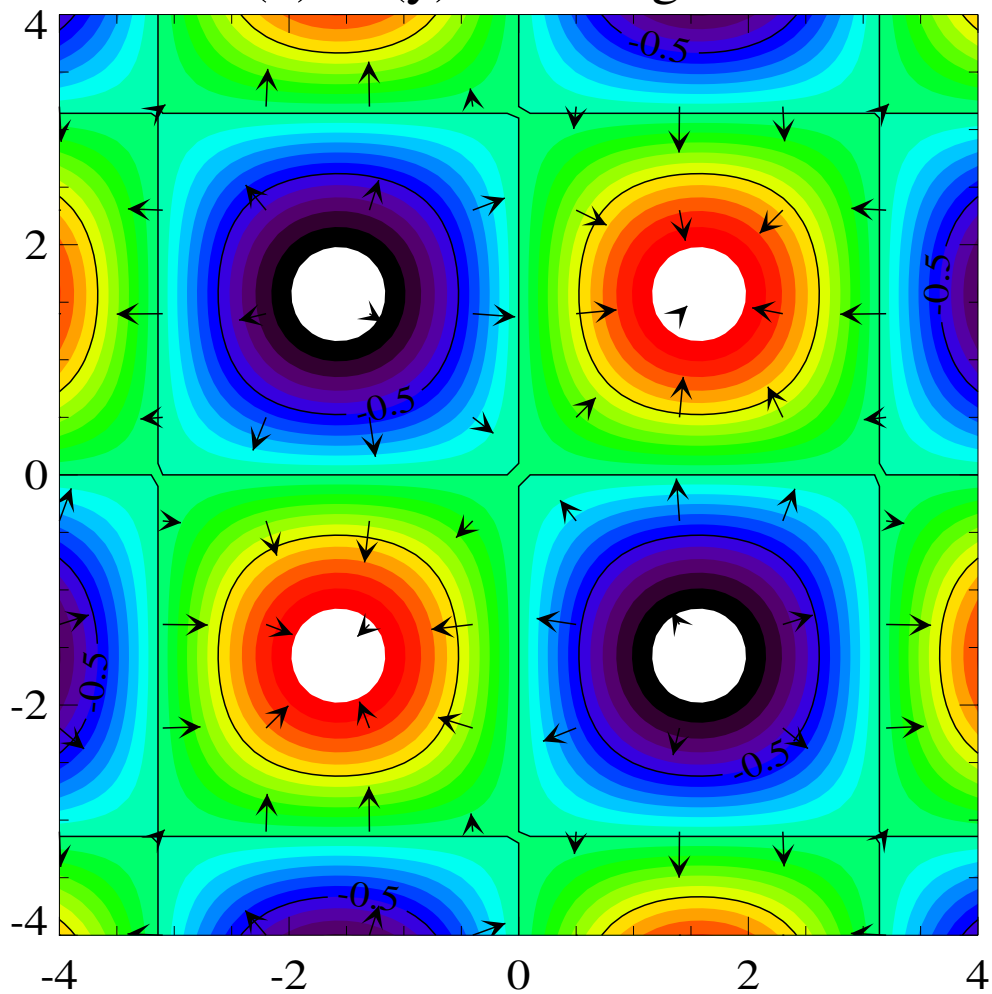
rotation and deformation: HOMEWORK



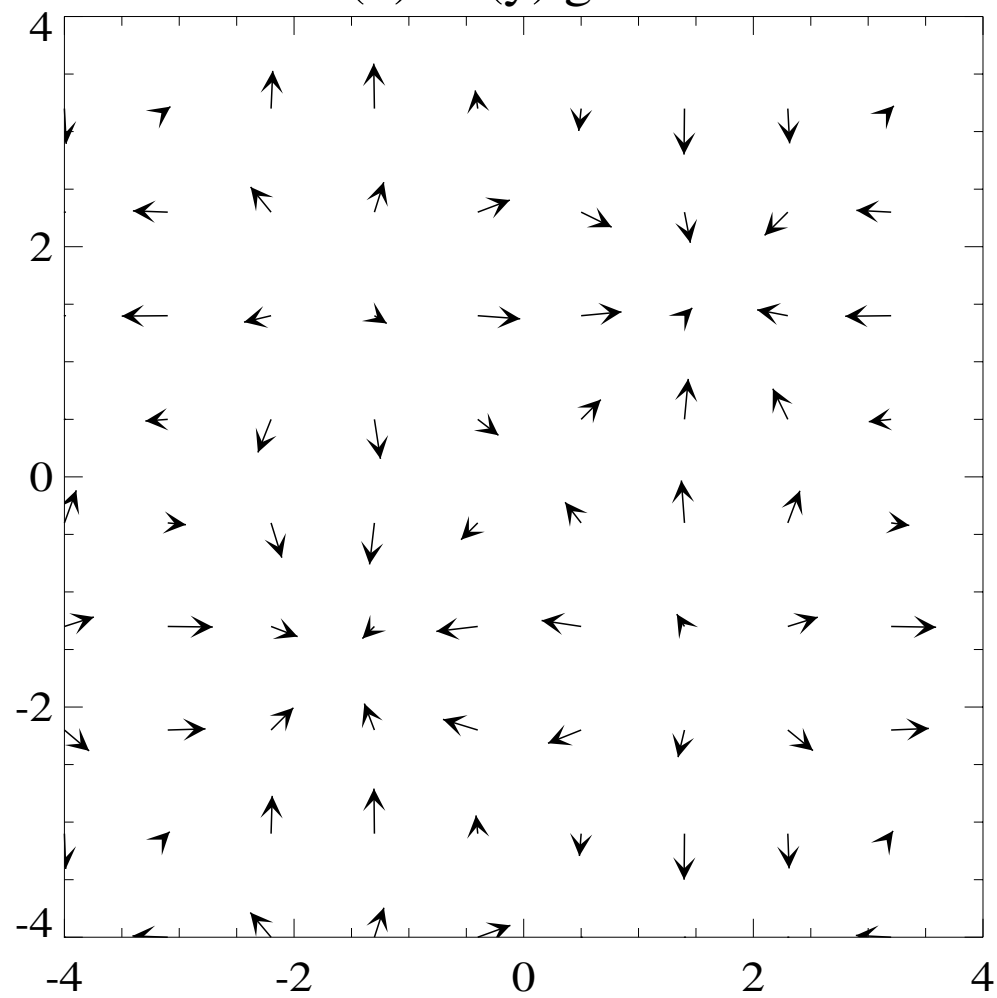
$\sin(x)\sin(y)$



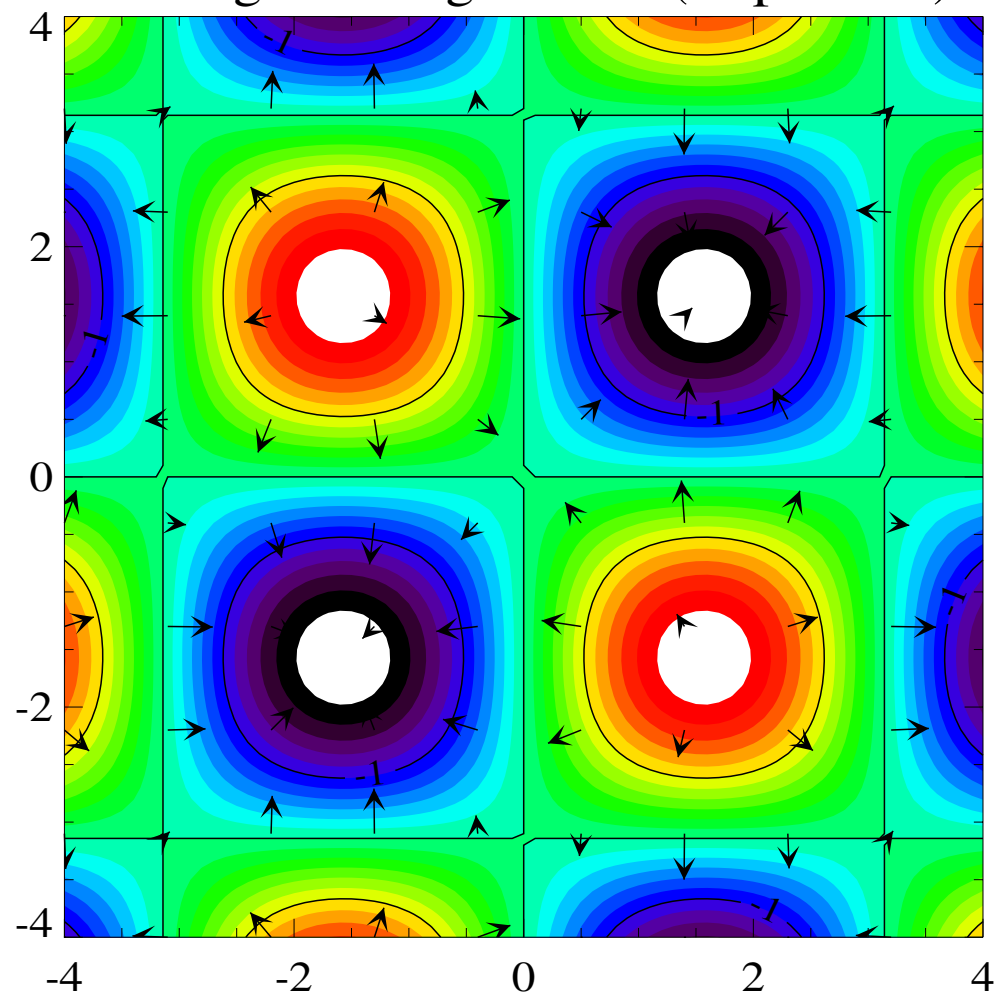
$\sin(x)\sin(y)$ and its gradient



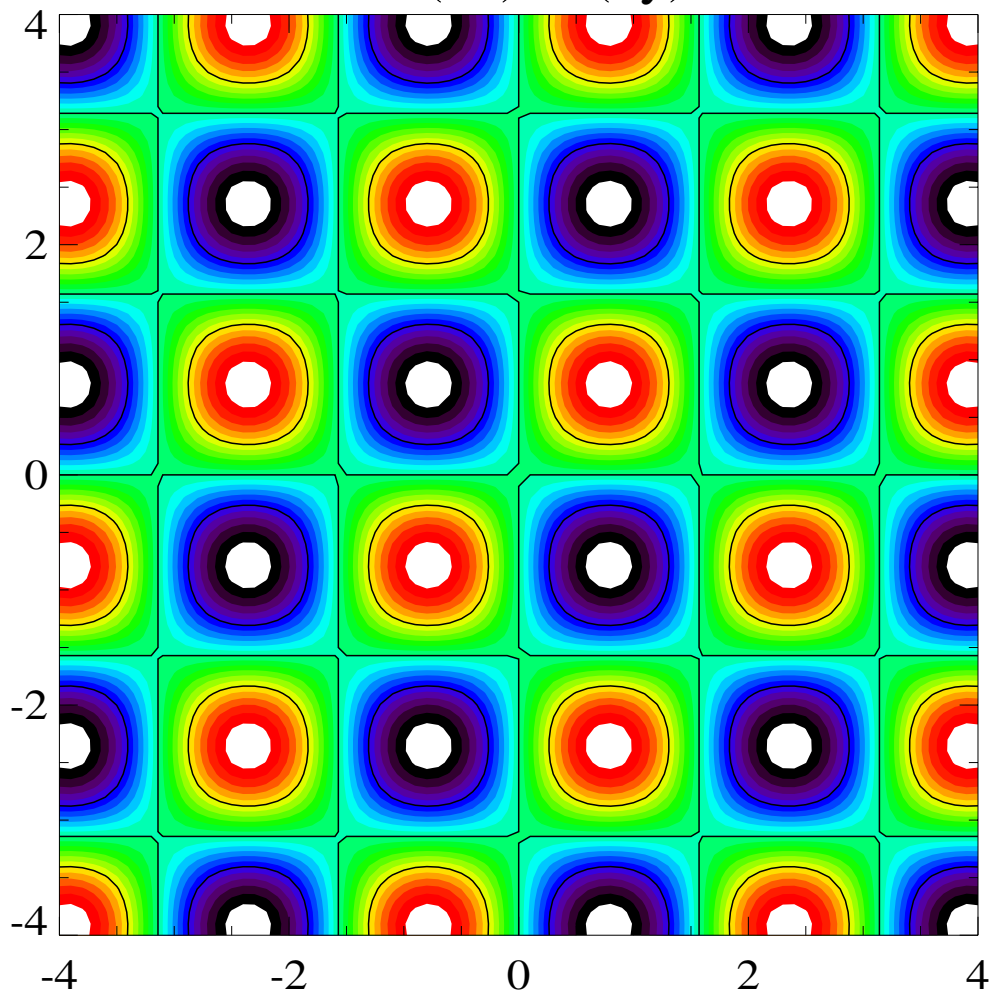
$\sin(x)\sin(y)$ gradient



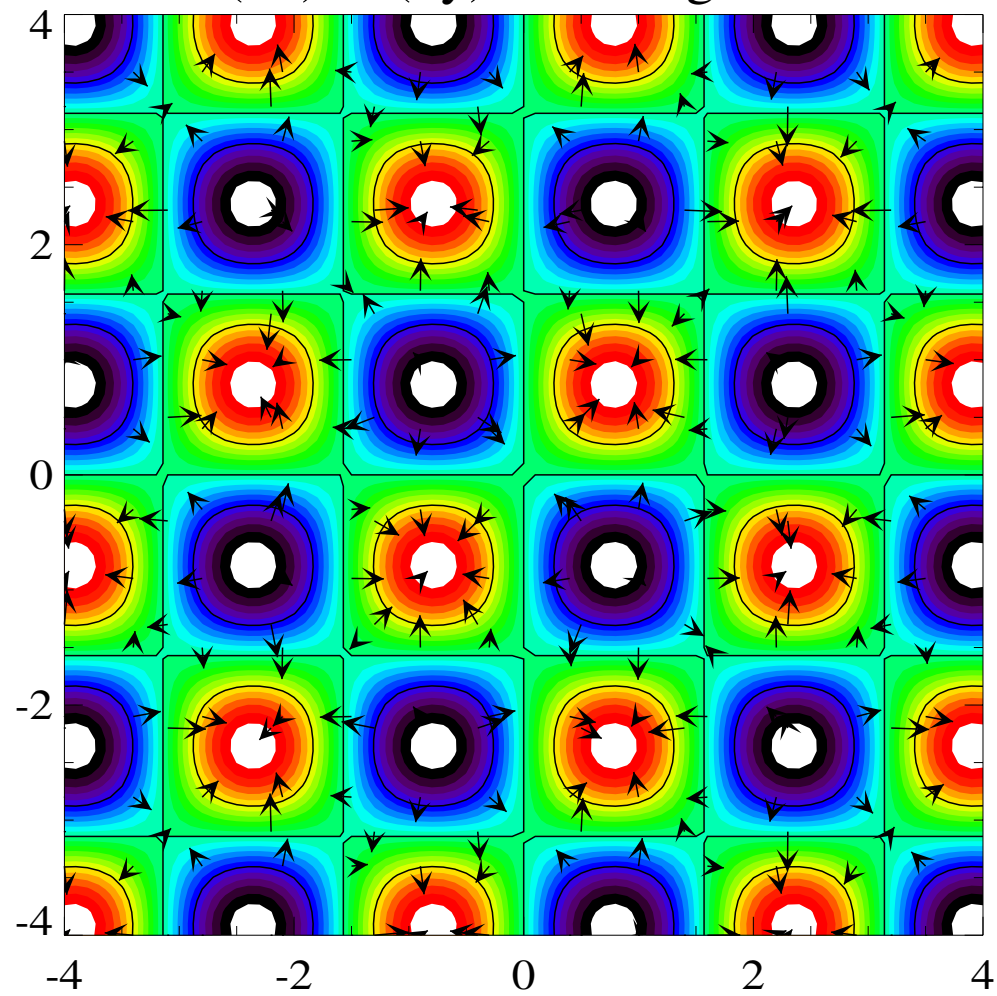
Divergence of gradient (Laplacian)



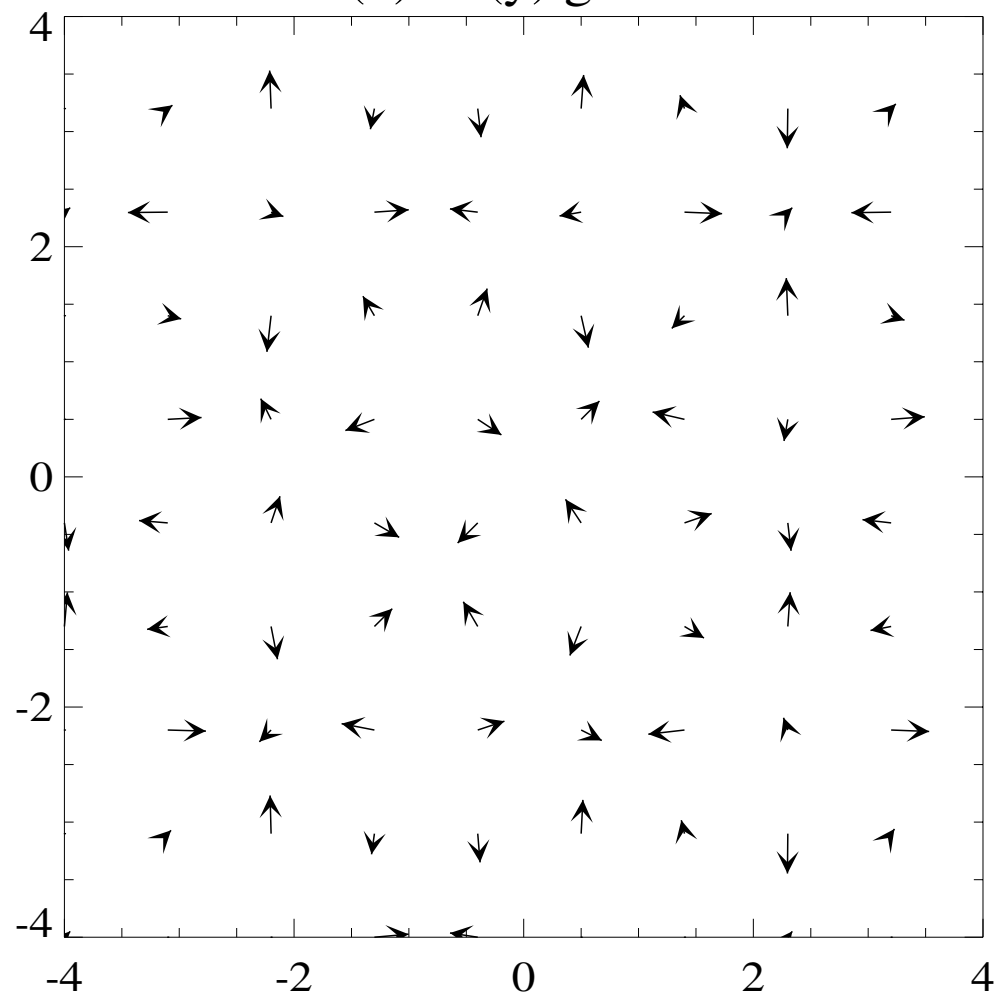
$$\sin(2x)\sin(2y)$$



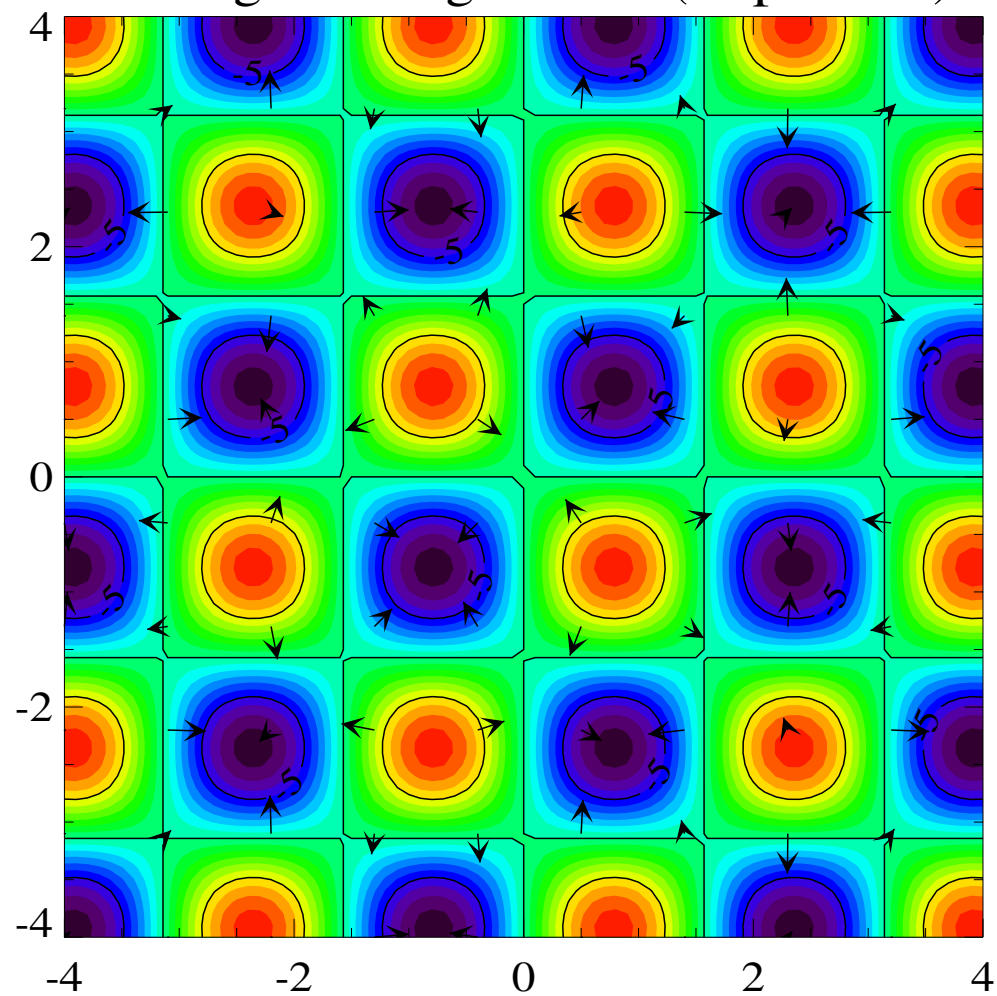
$\sin(2x)\sin(2y)$ and its gradient



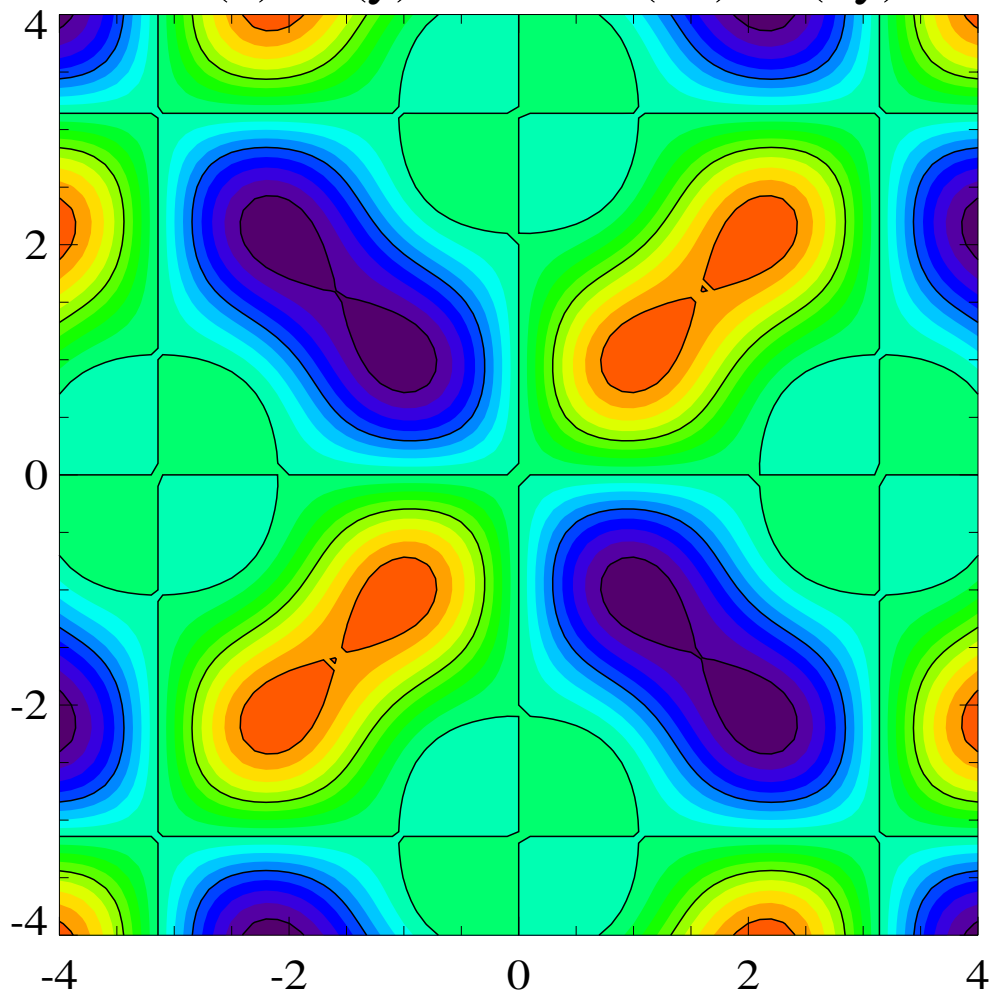
$\sin(x)\sin(y)$ gradient



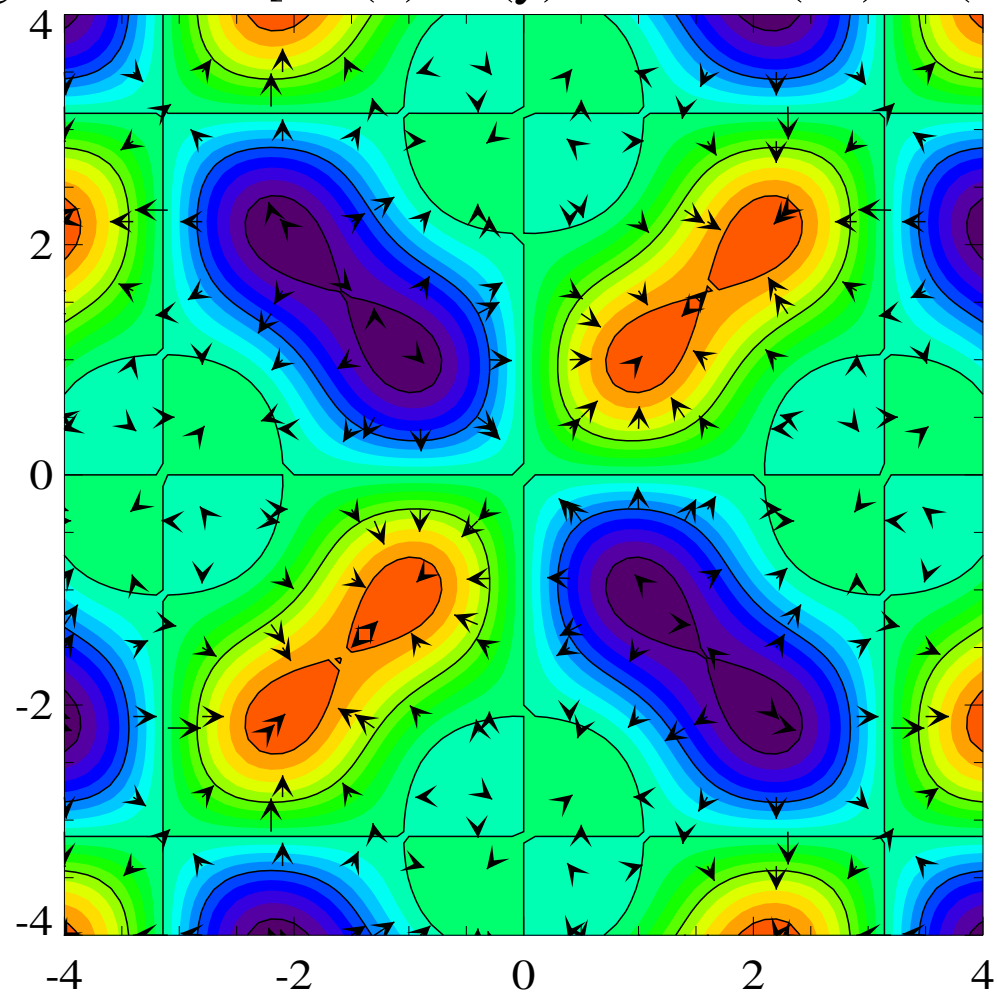
Divergence of gradient (Laplacian)



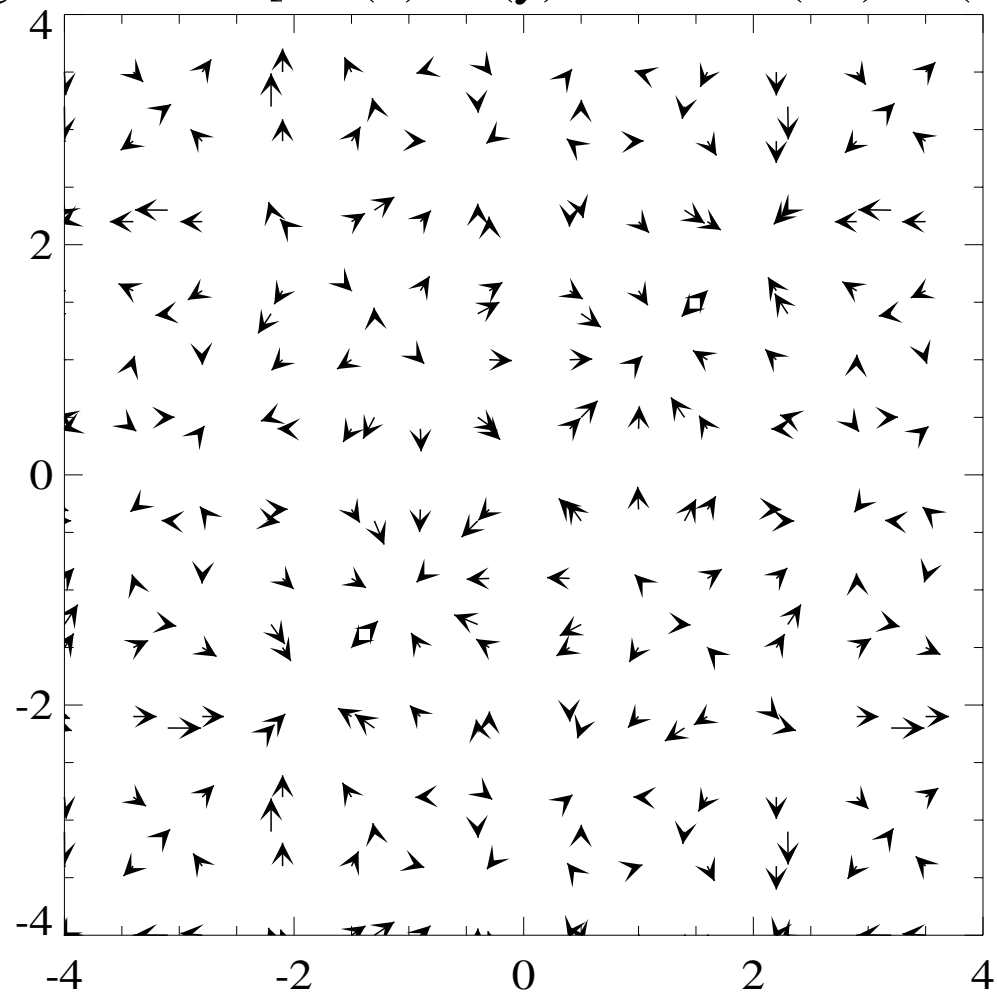
$$\sin(x)\sin(y) + \frac{1}{2} \sin(2x)\sin(2y)$$



gradient of $[\sin(x)\sin(y) + 1/2 \sin(2x)\sin(2y)]$



gradient of $[\sin(x)\sin(y) + 1/2 \sin(2x)\sin(2y)]$



Laplacian of $[\sin(x)\sin(y) + 1/2 \sin(2x)\sin(2y)]$

