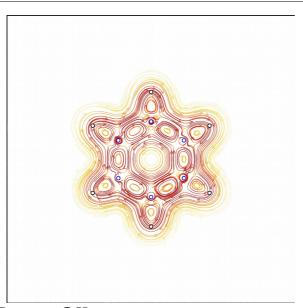
Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2016

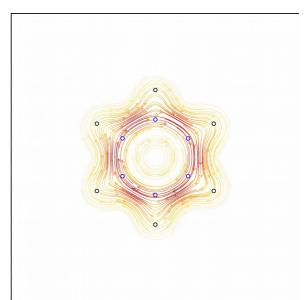
## Figure S1

Fully relativistic, induced current density on the plane of the ring and at 1 bohr distance from the plane of the ring, for halogenated benzenes. Higher magnitudes of the current density are represented by streamlines with redder (darker) colors. All figures are at the same scale.

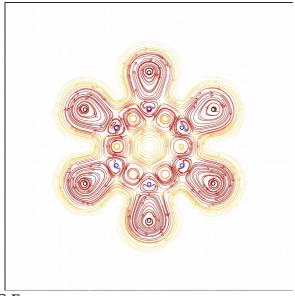
Induced current density on the plane of the ring.

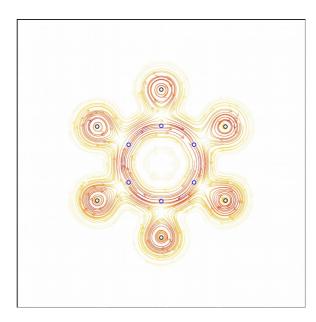
Induced current density at 1 bohr from the plane of the ring.



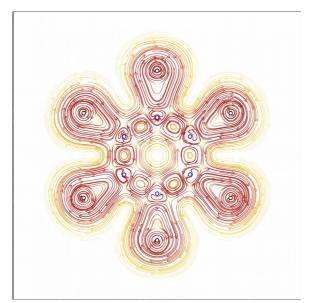


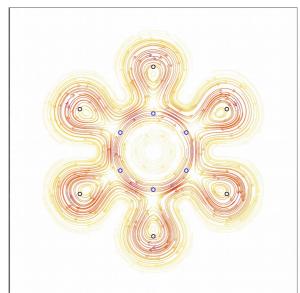
Benzene, C<sub>6</sub>H<sub>6</sub>



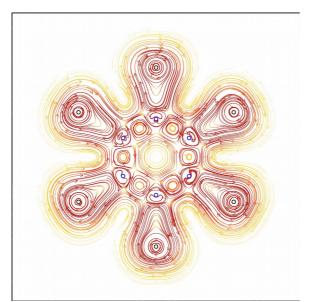


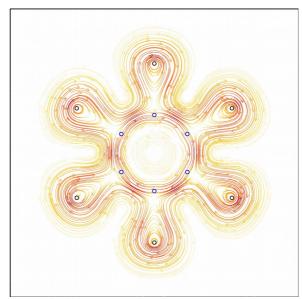
 $C_6F_6$ 



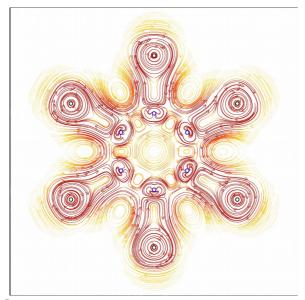


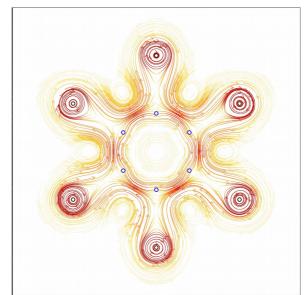
C<sub>6</sub>Cl<sub>6</sub>



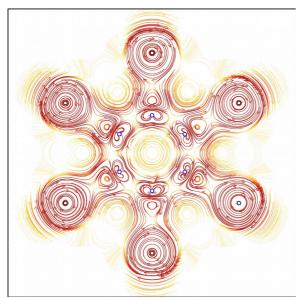


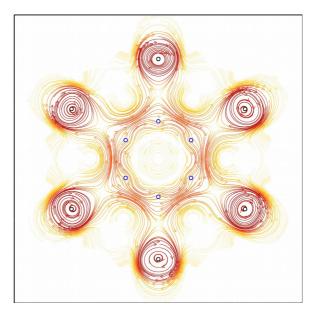
 $C_6Br_6$ 





 $C_6I_6$ 





 $C_6At_6$