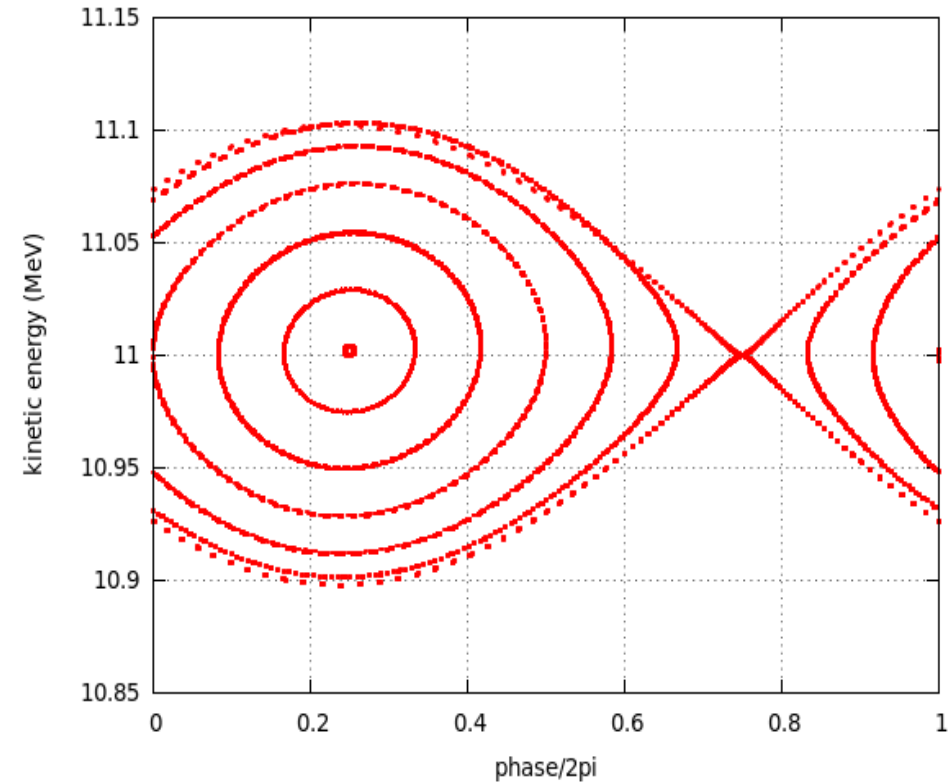
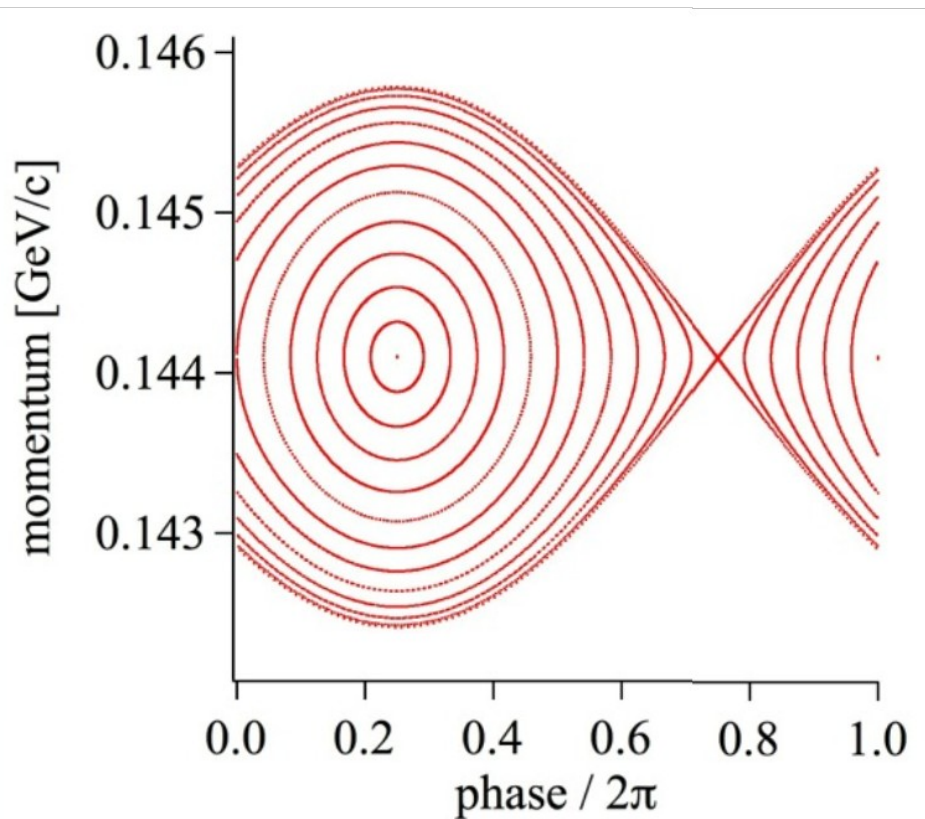


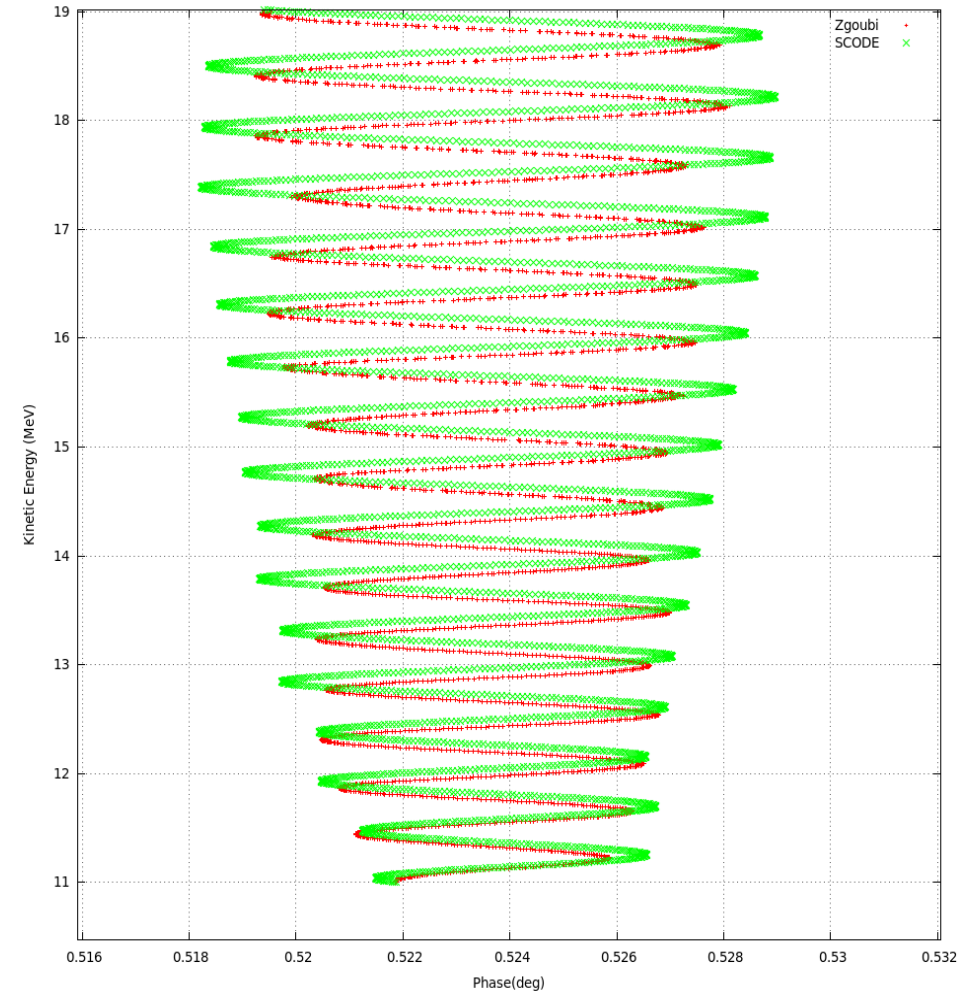
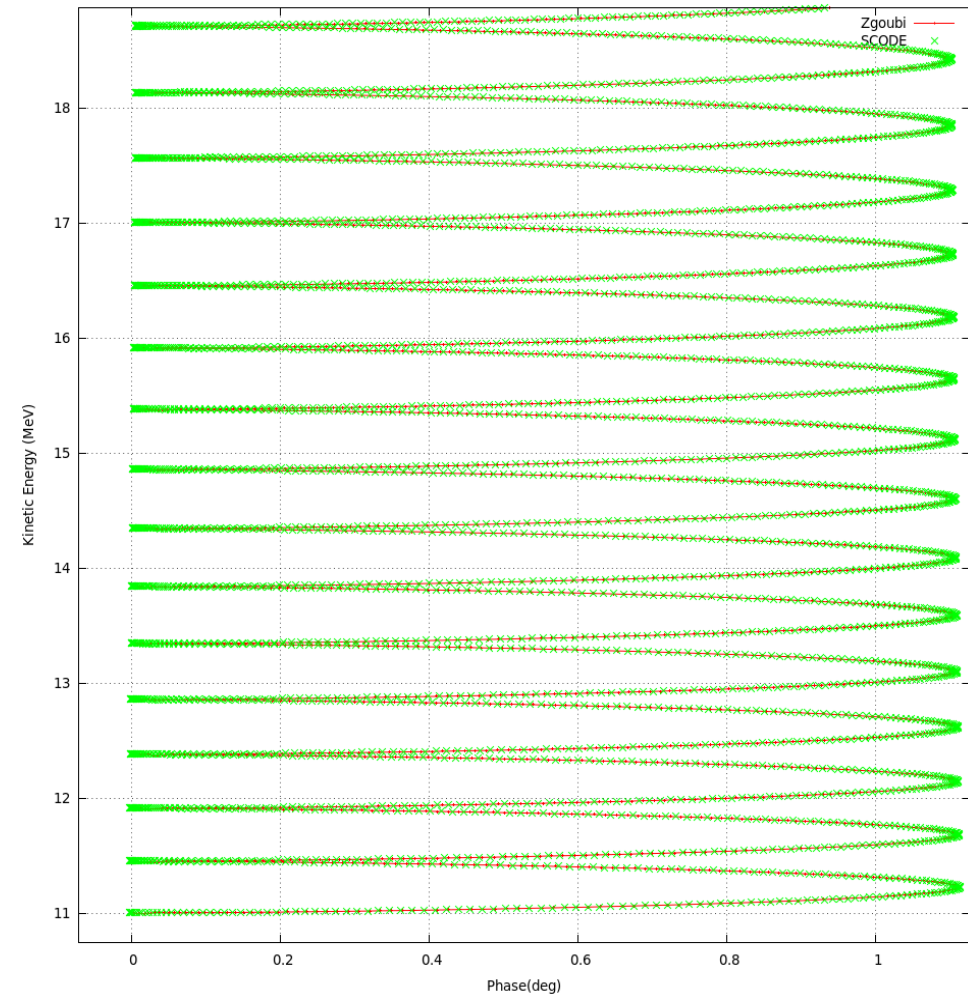
# Longitudinal phase space without RF

- Zgoubi



- Scode

# Longitudinal phase space with RF



- RF law with variable  $k$ .