

# Programme of e/h transport

SCT Digitization TF meeting

2010.9.21

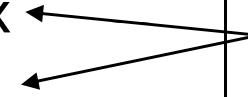
Taka Kondo (KEK)



# e-h transportation package

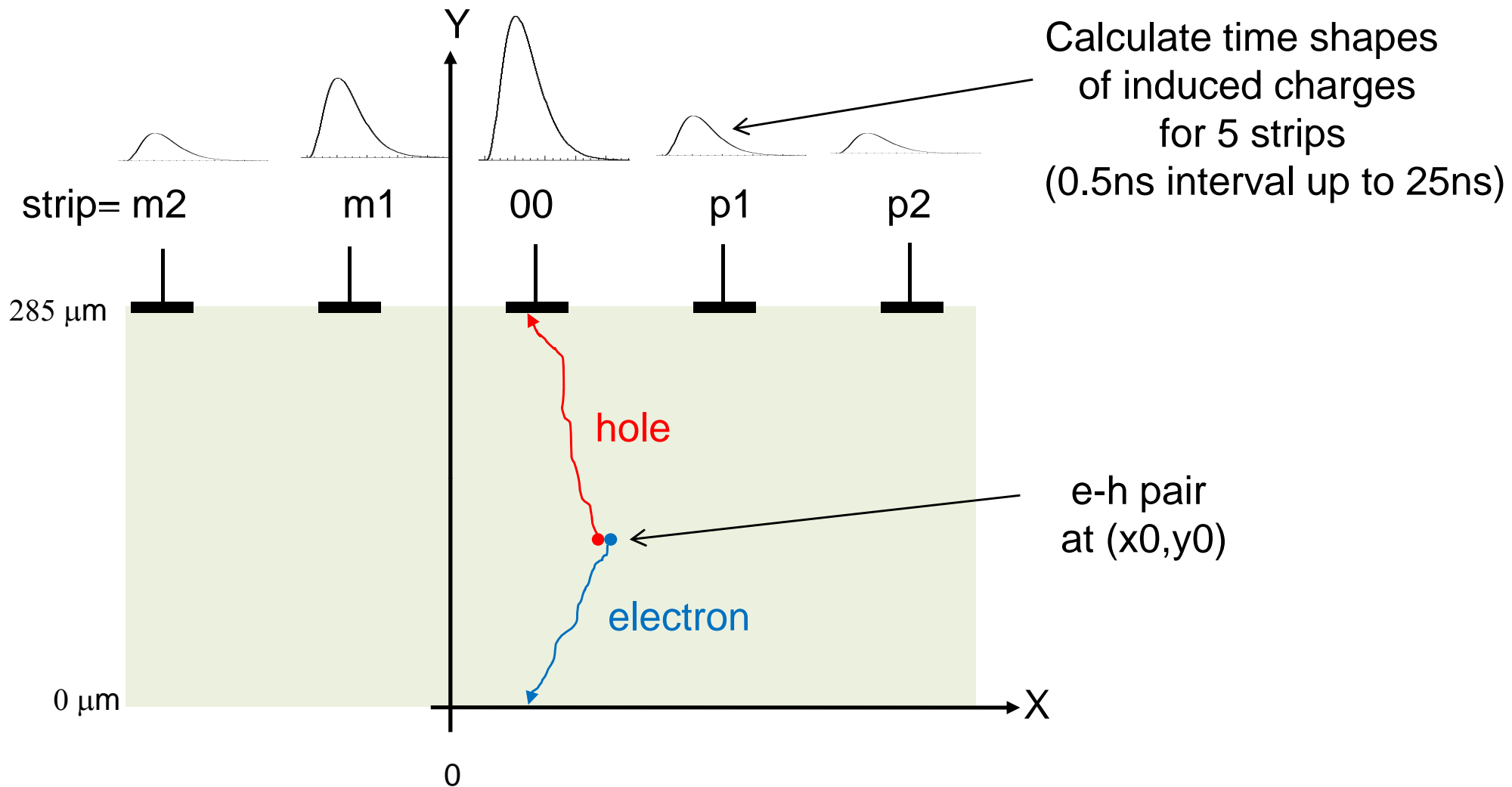
directory	programmes
cmt/	requirements
SCT1/	MySCTcharge.h
src/	MySCTcharge.cxx GetExEy_150V.cxx GetPotential.cxx
src/components/	SCT1_load.cxx SCT1_entries.cxx
run	MySCTcharge.py output_example

FEM Analyses  
with  $V_d=70V$   
(not 65V)



All programmes can be downloaded at

[http://atlas.kek.jp/si-soft/eh\\_transport](http://atlas.kek.jp/si-soft/eh_transport)



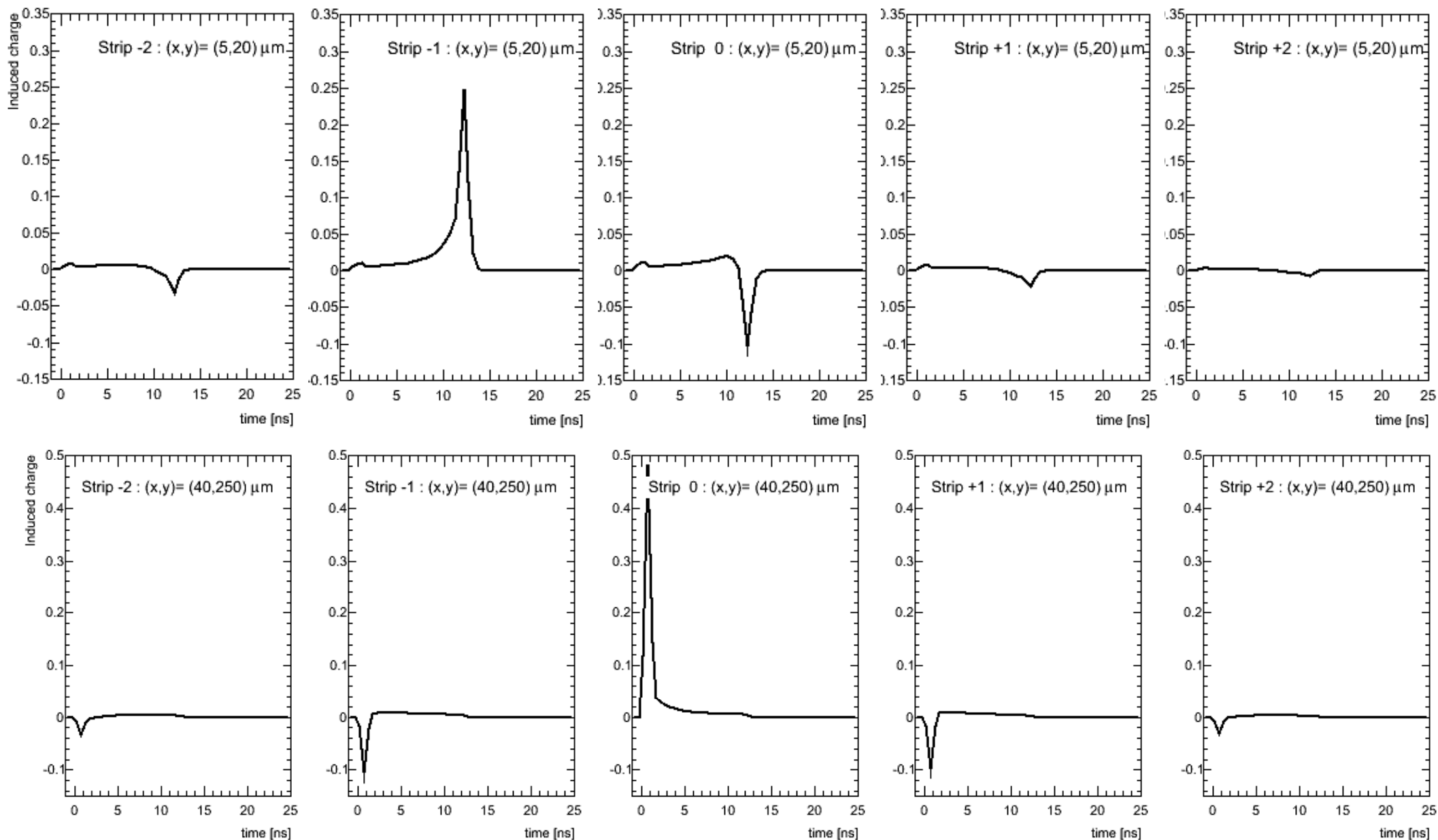
main member functions:

**holeTransport** ( $x_0, y_0, Q_{m2}, Q_{m1}, Q_{00}, Q_{p1}, Q_{p2}$ )

**electronTransport** ( $x_0, y_0, Q_{m2}, Q_{m1}, Q_{00}, Q_{p1}, Q_{p2}$ )

(with  $Q_{m2}[50], Q_{m1}[50], Q_{00}[50], Q_{p1}[50], Q_{p2}[50]$  )

# Induced charge profiles using e-h transport programme



# Summary

- e-h transport programme has been developed with induced current with FEM E-field model.
- These programmes can be picked up at [http://atlas.kek.jp/si-soft/eh\\_transport](http://atlas.kek.jp/si-soft/eh_transport)
- Hope Richard can install them in the current SCT digitization programme.