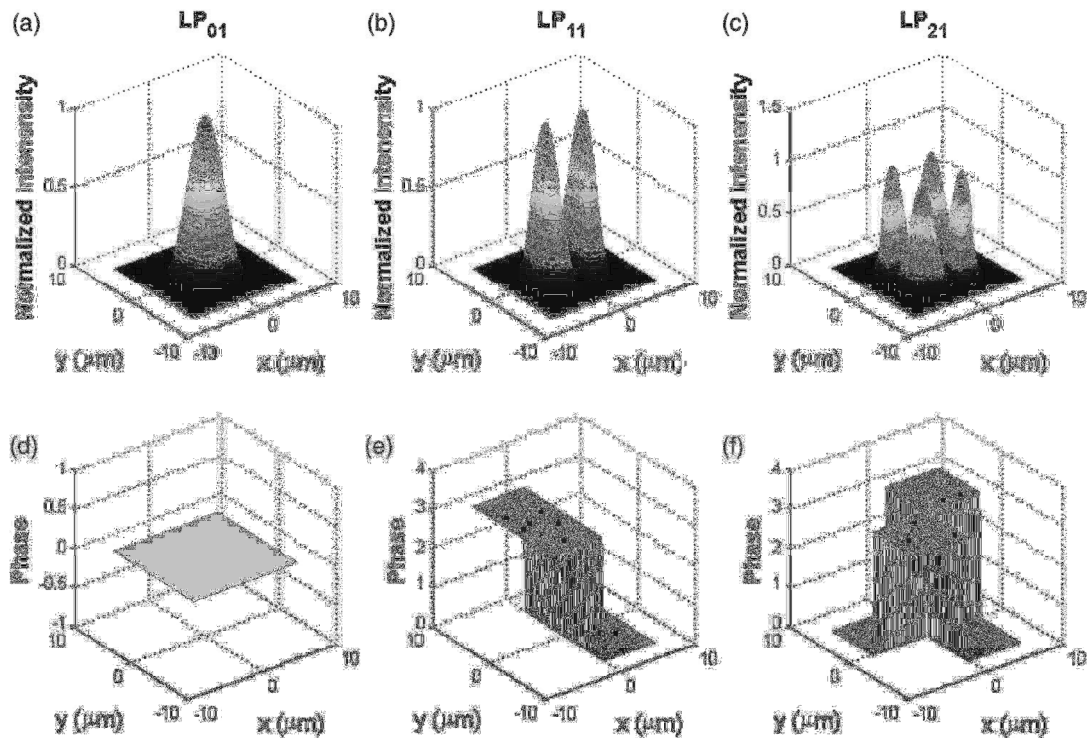


## Design and fabrication of phase mask



**Background:** In order to meet the explosive growth of the traffic in optical communication, mode-division (de)multiplexing is being explored extensively. How to excite high-order modes in multi-mode fiber efficiently is one of the challenges to overcome for this new technology.

**Objective:** To design and fabricate a phase mask which could selectively excite  $LP_{11}$  and  $LP_{21}$  modes in a few mode fiber. The project will use the most advanced equipment in DTU-Danchip cleanroom facilities to control precisely the phase change in the desired area.

### Contact:

Haiyan Ou, building 345v, room 172, phone 4525 6374, haou@fotonik.dtu.dk

Jing Xu, Building 343, room 232 , phone 4525 6601, jinxu@fotonik.dtu.dk