[Conclusion]

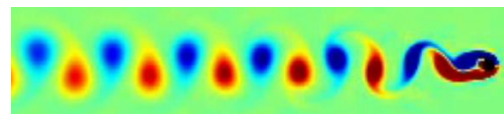## 1. POD-LSE combined method

$$\int_S R_{pp}(x,x')\phi(x')dx' = \lambda\phi(x)$$

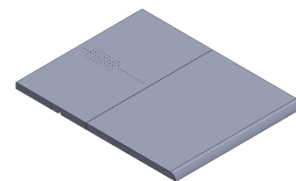- An analysis method to investigate the relation between physical quantities and sound pressure was developed

2. Preliminary experiments with a circular cylinder

- Sound and velocity field caused by Ｋ á rm á n vortex street could be connected adequately.

3. Relation of surface pressure & far-field sound

- Low-number dominant modes of surface pressure did not necessarily related to the radiation of far field sound

I will widely apply this method to investigate the mechanism of broad-band sound radiation in a complicated systems

Validation of the present method is confirmed and surface pressure mode is investigated in a step flow