



|                             |   |
|-----------------------------|---|
| Correct PDE                 | $u_t + (uu_x + vu_y) = -p_x + 0.01(u_{xx} + u_{yy})$ $v_t + (uv_x + vv_y) = -p_y + 0.01(v_{xx} + v_{yy})$                 |
| Identified PDE (clean data) | $u_t + 0.993(uu_x + vu_y) = -p_x + 0.01090(u_{xx} + u_{yy})$ $v_t + 0.993(uv_x + vv_y) = -p_y + 0.01090(v_{xx} + v_{yy})$ |
| Identified PDE (1% noise)   | $u_t + 0.994(uu_x + vu_y) = -p_x + 0.01084(u_{xx} + u_{yy})$ $v_t + 0.994(uv_x + vv_y) = -p_y + 0.01084(v_{xx} + v_{yy})$ |