



A Venn diagram illustrating two overlapping sets,  $\Omega_1$  and  $\Omega_2$ . The set  $\Omega_1$  is represented by a light red region at the bottom, and the set  $\Omega_2$  is represented by a light yellow region at the top. The intersection of the two sets is shaded in a light orange color. Both regions are outlined with a thick black border. The text  $\Omega_1 = \{\phi_1 < 0\}$  is written in red inside the red region, and  $\Omega_2 = \{\phi_2 < 0\}$  is written in yellow inside the yellow region.

$$\Omega_2 = \{\phi_2 < 0\}$$

$$\Omega_1 = \{\phi_1 < 0\}$$