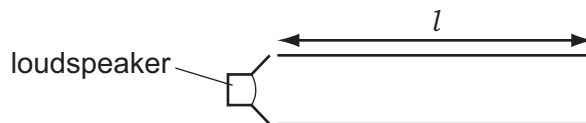


- 29 A loudspeaker emitting sound of frequency  $f$  is placed at the open end of a pipe of length  $l$  which is closed at the other end. A standing wave is set up in the pipe.



A series of pipes are then set up with either one or two loudspeakers of frequency  $f$ . The pairs of loudspeakers vibrate in phase with each other.

Which pipe contains a standing wave?

