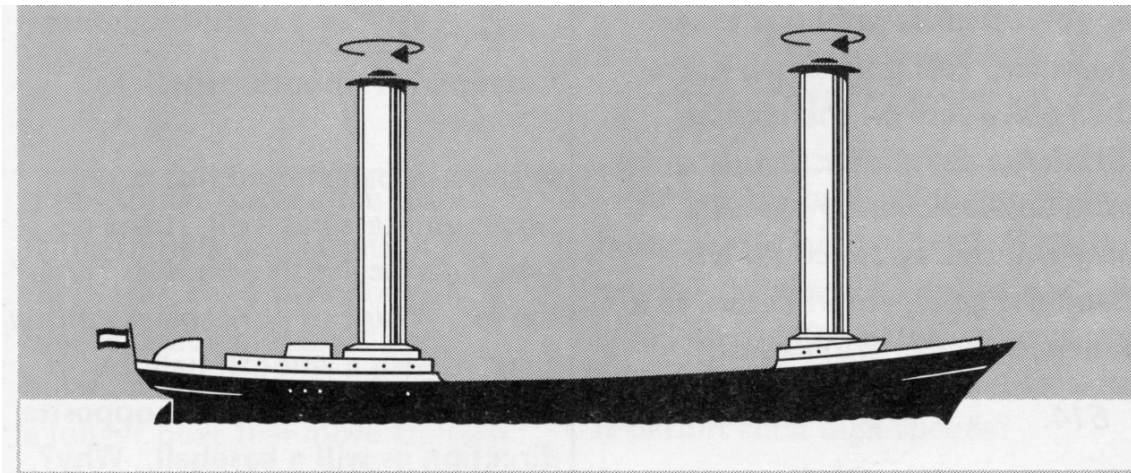


**Läsåret 05/06**

**5C1106 Tillämpad fysik, mekanik, 4 poäng (6 ECTS)**

**Projekt: Skruvad frispark i fotboll**

In 1925 a most unusual ship crossed the Atlantic Ocean propelled by two large, vertical rotating cylinders.



*Figure 4.37  
Flettner's ship propelled by two rotating cylinders.*

How did those rotating cylinders drive the ship forward?

Later NASA used the same principle by adding a horizontal rotating cylinder to an airplane's wing.

What similarity exists between what has been mentioned above, a screwed free kick in soccer and a bottom spin given to a golf ball?