



Gas released from cork after bottling

Orlando M.N.D. Teodoro¹

CEFITEC – Departamento de Física da Faculdade de Ciências e Tecnologia
Universidade Nova de Lisboa

Ana C. Mesquita²

Cork Supply Portugal



+ Motivation

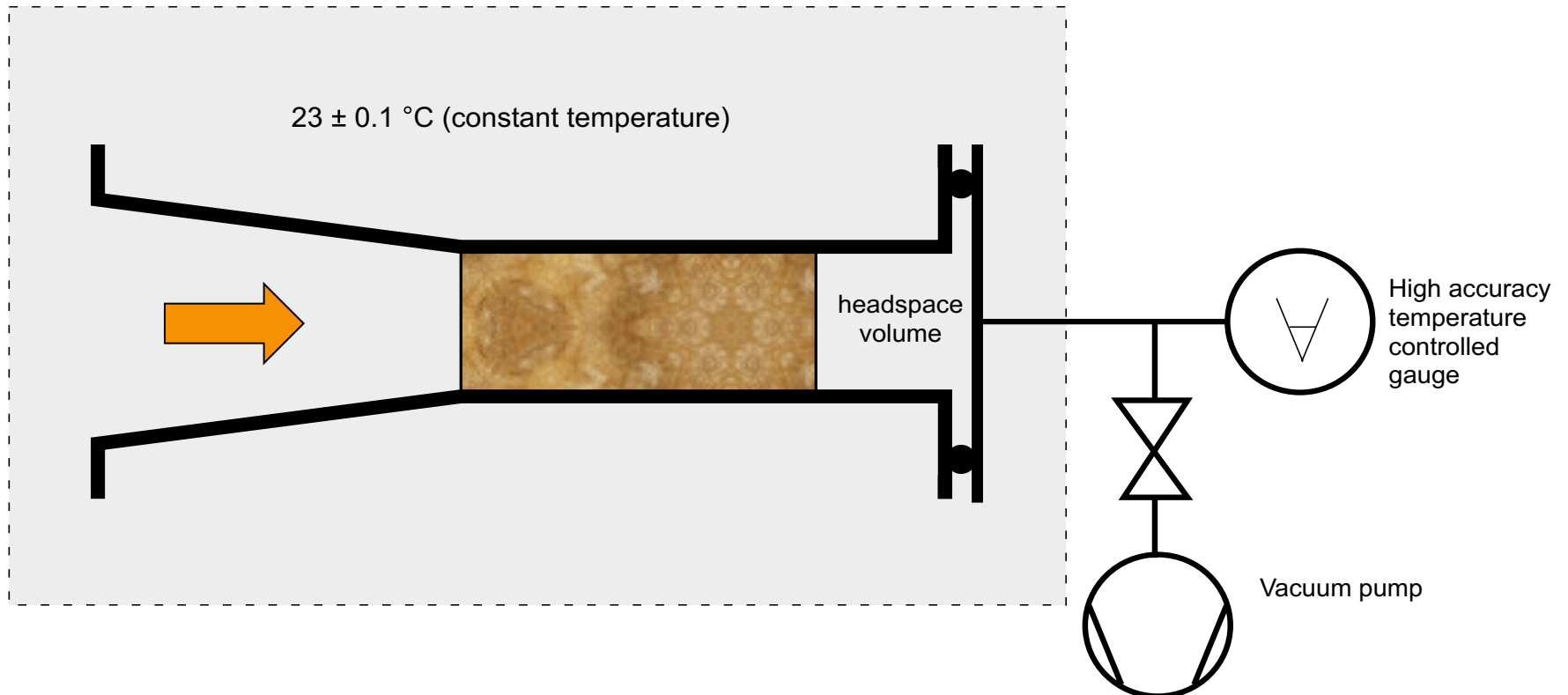
- Evolution of wine after bottling is affected by the continuous supply of oxygen through the closures.
- Where from comes the main contribution of oxygen after bottling?
- From outside through the cork closure or from the cork itself?
- How much gas is released from inside a cork stopper under typical bottling conditions?
- How fast the gas from a cork stopper is released?



+ Experiment

Pressure in the headspace was monitored for many days at constant temperature

- 3 different starting pressures:
 - 60 mbar (vacuum bottling)
 - 1007 mbar (balanced pressures bottling)
 - 3020 mbar (bottling without prior pumping)



+ Results and conclusions

Come to the poster and see!

