



5) Collision

Reporter: Bulgaria - Sophia

Opponent: Switzerland





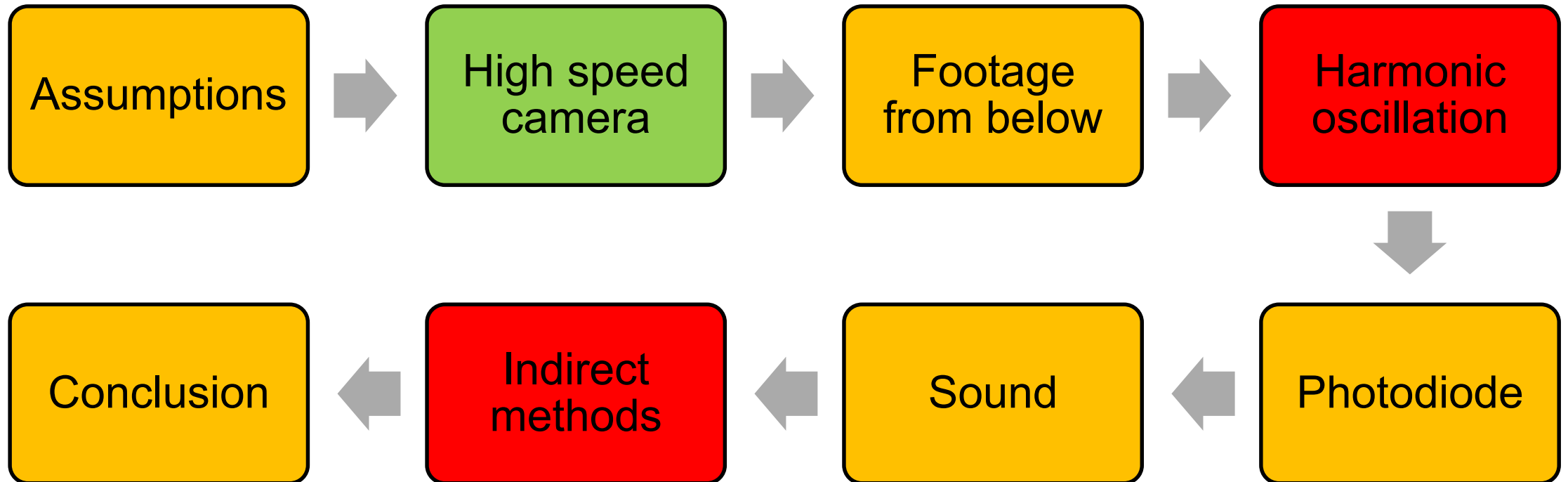
Problem

5. Collision: A **highly elastic Super Ball** collides with a **rigid surface**. How can one **determine the collision time**? Propose **various techniques** and **compare the experimental results**.

Task fulfilled



Outline of Report



 Good

 Ok

 Needs Improvement



Strengths and Weaknesses

Strengths

- Mentioned reason for error
- Multiple balls used
- A lot of methods used
- Comparison of methods

Weaknesses

- Didn't use the same tests for all the balls
- Definition of rigid surface
- Accuracy of the laser measurement
- Said collision time is independent of the drop height
- Harmonic Motion
- Change in deformation but no change in collision time



Discussion

