HST 2014
WORKING GROUP 4

GROUP MEMBERS:

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USING ANIMATIONS TO INTRODUCE PARTICLE PHYSICS IN SECONDARY SCHOOL

Animations should be used to

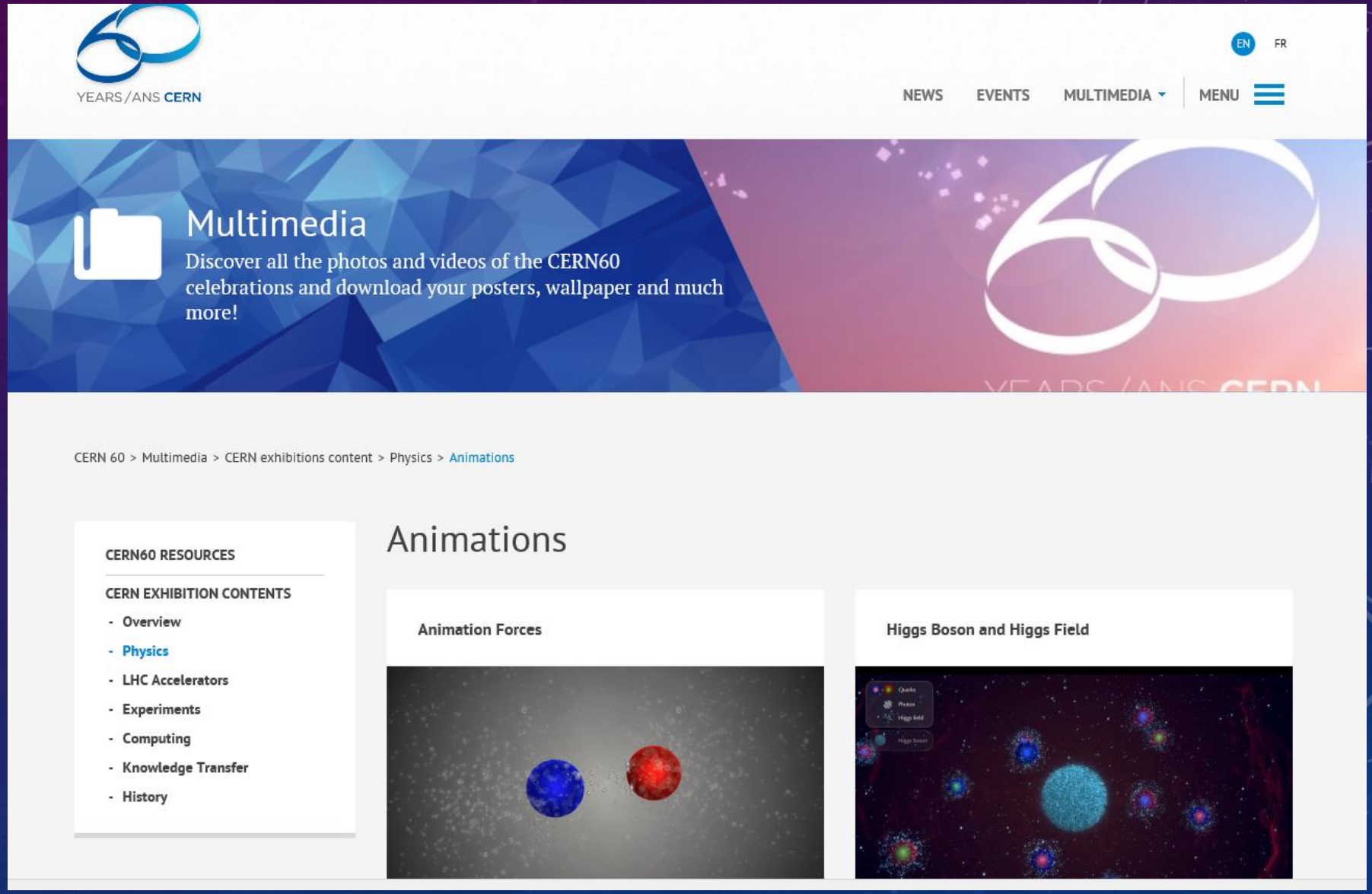
- enhance our lessons by varying the medium of learning
- grab the attention of the students
- encourage an excitement about particle physics

TWO DIMENSIONS TO THE PROJECT

- Identify and organise useful existing animations
- Create storyboards for new animation which fit curricular goals

WEBSITE

- http://cern60.web.cern.ch/en/exhibitions/physics/animations



PROJECT WORK SO FAR

Classified Animations as follows;

- Usefulness (in class)
- Length
- Topic (curricular)
- Level (Beginners/Intermediate/Advanced)

After discussion we identified

- Duplicates on the website
- The most useful ones for lesson plan ideas
- Some gaps in the animations to address common questions from our students

FOCUS POINTS

Animations need context for teaching!

In each of the following áreas, we will build a short lesson plan to tie animation to relevant syllabus objectives.

We are going to focus on these areas

1. (Beginners) CERN Introduction
2. (Intermediate) Creating a new animation explaining the Standard Model
3. (Intermediate) Creating a new animation explaining the applications of particle physics in real world
4. (Advanced) Overview of Accelerator Science at CERN
5. (Advanced) Medical Applications of CERN Physics

EXAMPLE

RECOMMENDATIONS SO FAR

- Animations are difficult to find and often duplicated – display all in the same page
- Animations have no description on them – include 2 sentences which describe the content and length of this animation
- Animations must be downloaded before seeing them – attach a small snapshot or link to Cern60 youtube channel instead
- More to follow…

- If you have any ideas – please share!