

Particle physics/dance workshop

Physicists have developed a simple and comprehensive theory, **The Standard Model** that describes the particles that make up the world and their complex interactions in the universe. Drawing inspiration from different particles' qualities, children are invited to transform them through dance and music, in order to understand basic physics' elements using their imagination.

10.00

Introduction to particle physics

20 mins

Interpretation through art intro

10 mins

10.30-11.15

First activity

45 mins

Movement interpretation - finding a movement for each particle considering its characteristics (mass, behaviour). Associating a melody and a rhythm to each one of them. Associating 2-3 words or a small phrase. Association with texture and colour of a cloth.

11.15-12.15

1hr

Second activity

a) Introduction to particle movement patterns in space, and an itinerary for each particle.

b) Particle interactions: working in duets and small groups, children interact with each other to form particle "relationships".

c) Mixing itineraries and interactions together.

12.15

Lunch break

1.00-2.30

1hr 30 mins

Putting first and second activity together. Creating a **theatrical storyline** and a **performance**.

2.30-3.00

30 mins

Group discussion and **feedback**.

Photos from the “Neutrino Passoire” workshop



