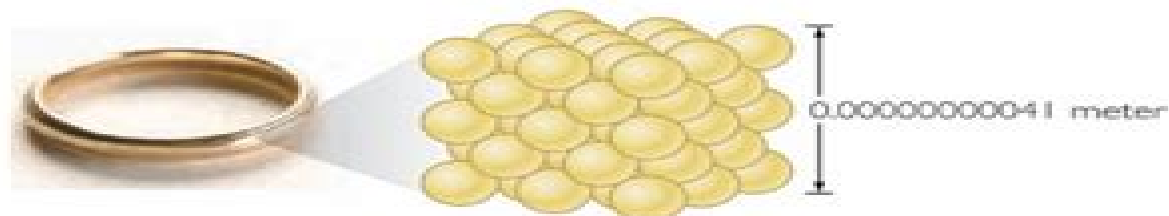


LESSON 11

Atomic Pudding Models of the Atom

Think About It

The drawing depicts a very tiny sample of gold taken from a gold ring.



The spheres in the cube of gold are so small that they cannot be seen. What are the spheres, and what does this drawing tell you about the element gold?

How are the smallest bits of matter described?

To answer this question, you will explore

- ① Atoms: Small Bits of Matter
- ② Models of the Atom
- ③ Simple Atomic Model

Exploring the Topic

① Atoms: Small Bits of Matter

Imagine you break a piece of matter in half, and then break it in half again and again. How many times can you do this? Can you keep going, getting ever smaller? Around 460 B.C.E., the Greek philosopher Democritus wondered the same thing. He thought that if he could just keep breaking matter in half he would eventually end up with the smallest bit of matter possible.

Answers Lesson 1 atomic Pudding

NARAYAN CHANGDER



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QCD Radiation in Top-Antitop and Z+Jets Final States Kiran Joshi,2015-06-12 This thesis contains new research in both experimental and theoretical particle physics making important contributions in each Two analyses of collision data from the ATLAS experiment at the LHC are presented as well as two phenomenological studies of heavy coloured resonances that could be produced at the LHC The first data analysis was the measurement of top quark antiquark production with a veto on additional jet activity As the first detector corrected measurement of jet activity in top antitop events it played an important role in constraining the theoretical modelling and ultimately reduced these uncertainties for ATLAS's other top quark measurements by a factor of two The second data analysis was the measurement of Z 2jet production and the observation of the electroweak vector boson fusion VBF component As the first observation of VBF at a hadron collider this measurement demonstrated new techniques to reliably extract VBF processes and paved the way for future VBF Higgs measurements The first phenomenological study developed a new technique for identifying the colour of heavy resonances produced in proton proton collisions As a by product of this study an unexpected and previously unnoticed correlation was discovered between the probability of correctly identifying a high energy top and the colour structure of the event it was produced in The second phenomenological study explored this relationship in more detail and could have important consequences for the identification of new particles that decay to top quarks **Sm Fundamentals Chemistry T/I**

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