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## Photon Pair Production **High Energy Photon Photon Collisions**

Since each photon can be resolved into a  $W+W^-$  pair, high energy photon-photon collisions can also provide a remarkably background-free laboratory for studying  $WW$  collisions and annihilation. We also review high energy  $\gamma\gamma$  tests of quantum chromodynamics, such as the scaling of the photon structure function,  $ft$  production, mini-jet processes, and diffractive reactions.

## **High energy photon-photon collisions - ScienceDirect**

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During the International Conference on High-Energy Physics , the ATLAS collaboration presented the first observation of photon collisions producing pairs of W bosons, elementary particles that carry the weak force, one of the four fundamental forces. The result demonstrates a new way of using the LHC, namely as a high-energy photon collider directly probing electroweak interactions.

## **Rare phenomenon observed by ATLAS features the LHC as a ...**

The collisions of high energy photons produced at a electron-positron collider provide a comprehensive laboratory for testing &CD, electroweak interactions, and extensions of the standard model.

## **High Energy Photon-Photon Collisions\* - SLAC**

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High energy photon-photon collisions can also provide a remarkably background-free laboratory for studying possibly anomalous  $W W W W W W$  collisions and annihilation. In the case of QCD, each photon can materialize as a quark anti-quark pair which interact via multiple gluon exchange.

## **High energy photon-photon collisions at a linear collider ...**

During the International Conference on High-Energy Physics (ICHEP 2020), the ATLAS collaboration presented the first observation of photon collisions producing pairs of  $W$  bosons, elementary...

## **ATLAS experiment reports the observation of photon ...**

High energy photon-photon collisions also open up a huge range of novel QCD studies, such as measurements of the

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photon structure function, the search for  $C = ?$  1 o dderon exchange in exclusive

## **High Energy Photon-Photon And Electron-Photon Collisions**

photon-photon and electron-photon collisions provide important tests of QCD at the amplitude level, particularly as measures of hadron distribution amplitudes. There are also important high energy  $\gamma\gamma$  and  $e\gamma$  tests of quantum chromodynamics, including the production of jets in photon-photon collisions, deeply virtual Compton

## **Photon-Photon Collisions { Past and Future**

ion runs have the centre-of-mass energy of 2.76TeV where the hard photon production is copious. One can make a photon isolation cut to enrich the prompt photon component even in heavy-ion

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collisions. Figure 5a shows the isolated photon  $p_T$  distributions in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76\text{TeV}$  measured by the ATLAS experiment at LHC,

## **Photon and dilepton production in high-energy heavy-ion ...**

Protons usually remain intact or are excited into a higher energy state in photon collisions, with the products of any subsequent decay not reaching the innermost components of the ATLAS detector.

## **The LHC as a photon collider – CERN Courier**

Two-photon physics, also called gamma–gamma physics, is a branch of particle physics that describes the interactions between two photons. Normally, beams of light pass through each other unperturbed. Inside an optical

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material, and if the intensity of the beams is high enough, the beams may affect each other through a variety of non-linear effects. In pure vacuum, some weak scattering of light by light exists as well. Also, above some threshold of this center-of-mass energy of the system ...

## **Two-photon physics - Wikipedia**

The collisions of high energy photons produced at an electron-positron collider provide a comprehensive laboratory for testing QCD, electroweak interactions, and extensions of the standard model. The luminosity and energy of the colliding photons produced by backscattering laser beams is expected to be comparable to that of the primary  $e^+e^-$  collisions.

## **High energy photon-photon collisions - NASA/ADS**

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During the International Conference on High-Energy Physics (ICHEP 2020), the ATLAS Collaboration presented the first observation of photon collisions producing pairs of W bosons, elementary particles that carry the weak force, one of the four fundamental forces.

## **Rare Phenomenon Observed by ATLAS Features the LHC as a ...**

collisions electrons collide only with the highest energy photons, therefore the invariant mass spectrum of  $\gamma\gamma$  collision is narrow. In  $\gamma\gamma$  collisions at  $\sqrt{s} = 13$  TeV the photons with higher energy collide at smaller spot size and, therefore, contribute more to the luminosity. As a result, the luminosity spectrum is much narrower than at  $\sqrt{s} = 7$  TeV.

## **High Energy Photon-Photon Colliders - arXiv**

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When two lead ions pass closely enough that their electromagnetic fields swoosh through one another, the high-energy photons which ultimately make up these fields can interact. In rare instances, a photon from one lead ion will merge with a photon from an oncoming lead ion, and they will ricochet in different directions.

## **A collision of light | symmetry magazine**

"Elastic collisions of photons with photons seemed, until recently, very unlikely.

Many physicists regarded the registration of such collisions in the LHC as impossible. Meanwhile, we have proven...

## **Researchers explore the billiard dynamics of photon collisions**

The nonlinear Breit–Wheeler process or multiphoton Breit–Wheeler is the creation of a pair of electron-positron from the decay of a high-energy photon ( gamma

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photon) interacting with a strong electromagnetic field such as a laser. The Breit–Wheeler process or Breit–Wheeler pair production is a physical process in which a positron – electron pair is created from the collision of two photons.

## **Breit–Wheeler process - Wikipedia**

Summary. We demonstrate that, by an appropriate choice of the polarization vectors of the virtual photons, the photon-photon collisions cross-section may be written as a sum of four positive-definite sub-cross-sections.

## **Reduced cross-sections for high-energy photon-photon ...**

The collisions of high energy photons produced at a electron-positron collider provide a comprehensive laboratory for testing QCD, electroweak interactions and extensions of the standard model. The

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luminosity and energy of the colliding photons produced by back-scattering laser beams is expected to be comparable to that of the primary  $e^{(\text{sup } +)}e^{(\text{sup } -)}$  collisions.

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