



**THE FOURTH STATE OF MATTER**  
**PLASMA : AN OVERVIEW**  
 To be premiered in YouTube on  
 23<sup>rd</sup>/June/2021 from 2:30 PM onwards  
 & followed by a Q & A via Zoom  
 YouTube Link for the programme will be shared to the  
 WhatsApp group



**Naturally Occurring Plasma**

- Sun & Stars 
- Northern Lights also known as Aurora Borealis 

**St Edmund's College**  
**Department Of Electronics**  
 (Under DBT Star College Scheme)  
 In collaboration with IQAC, St Edmund's College

Invites you to a talk on  
**THE FOURTH STATE OF MATTER**  
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**CLICK HERE TO JOIN WHATSAPP GROUP**  
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**What is Plasma?**

The diagram shows the following transitions:  
 Solid to Liquid: Melting  
 Liquid to Solid: Freezing  
 Liquid to Gas: Vaporization  
 Gas to Liquid: Condensation  
 Gas to Plasma: Ionization  
 Plasma to Gas: Deionization



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 PRESENTS

0:03 / 27:43

**Applications**

- Plasma Etching

It is a form of plasma processing which involves in fabrication of integrated circuits. Many semiconductor material such as MOSFET, are fabricated by these process.

The diagram illustrates the plasma etching process: Feed gas enters a chamber containing plasma. On a substrate, adsorption occurs, followed by a reaction that leads to desorption of material. Gas out is then removed from the chamber.

