

REVIEW OF SESSION 2.3 - KLYSTRON-MODULATOR DESIGN-2

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DESY

Yesterday...

Looking back some years ago we had Glasoe & Lebacque and the following:

- Line-type modulators, PFNs, Thyratrons, Pulse Transformers...etc
- Hard tube modulators, switch tubes (tetrodes etc) and capacitor banks...

Today...

We have many different types of modulator...

- Induction type modulator, IGBTs, Fractional Turn transformers
- Line type modulators with semiconductor switches
- Direct switching at 500 kV, with IGBTs
- Bouncer Modulators
- SMES, Super conducting coil for energy storage instead of capacitors
- Converter modulators
- PSM, Pulsed switched modulators
- and of course we still have Line-type modulators, Thyratrons, PFNs and Pulse transformers.