Study of a High Voltage Circuit Breaker

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Study level for the internship: M2

Electrical engineering, thermal plasma

Duration of the internship 6 months

Short abstract
High voltage circuit breaker are mainly used in SF₆ gas. Nevertheless, actual studies are devoted to alternative methods in vacuum. A two-temperature model based on the bibliographic works was developed. The internship will consists to a deeper bibliographic study and to a parametric study of the software in order to validate its behavior with accessible experimental results.

Key words: Plasma, modelling, parametric study