

- *Thesis (Bachelor / Master) –*



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

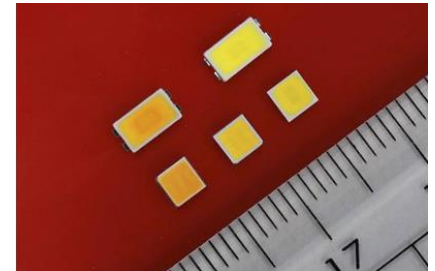


FACHGEBIET  
LICHTTECHNIK

## Spectral modeling of phosphor-converted LED

### *Modeling, Programming*

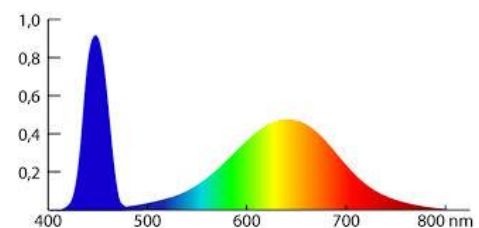
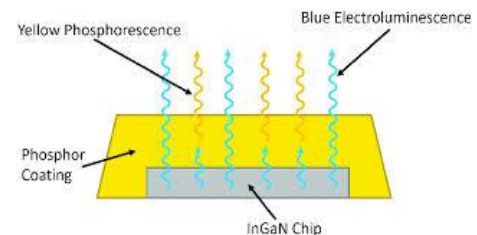
LED light sources with white emission spectra are nowadays widely used in various applications. To achieve a white emission spectrum, one or more phosphors with a yellow emission spectrum are typically applied to a blue-emitting semiconductor. The additive mixture of the different spectra results in white light.



Within the scope of this work, the individual spectral components of white LED light sources are to be extracted as accurately as possible. The work is divided into the following work packages:

- Literature research of existing extraction methods
- Selection and implementation of existing methods
- Optimization of existing methods
- Development of further methods
- Benchmarking of all implemented methods

**The specific task and the scope of the work can be adapted to the students' wishes or professional preferences.**



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