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**Time-Resolved Spectroscopy of Energy Transfers in Optoelectronic Media**

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# Symbols and Abbreviations

## Greek symbols

|               |                          |
|---------------|--------------------------|
| $\alpha$      | absorption coefficient   |
| $\varepsilon$ | dielectric constant      |
| $\delta$      | Dirac delta function     |
| $\eta$        | quantum efficiency       |
| $\lambda$     | wavelength               |
| $\mu$         | micro-                   |
| $\nu$         | frequency                |
| $\xi$         | envelope function        |
| $\pi$         | number pi                |
| $\sigma$      | excitation cross section |
| $\tau$        | lifetime                 |
| $\phi$        | flux                     |
| $\psi$        | wave function            |
| $\omega$      | angular frequency        |

## Abbreviations

|       |   |
|-------|---|
| BE    | Bound Exciton                           |
| CB    | Conduction Band                         |
| CMOS  | Complementary Metal Oxide Semiconductor |
| c-Si  | crystalline Si                          |
| DLTS  | Deep-Level Transient Spectroscopy       |
| EL    | ElectroLuminescence                     |
| FE    | Free Exciton                            |
| FEL   | Free Electron Laser                     |
| FWHM  | Full Width at Half Maximum              |
| LO    | Longitudinal Optical                    |
| (M)IR | (Mid-)InfraRed                          |

## viii Symbols and Abbreviations

|         |                                       |
|---------|---------------------------------------|
| PL(E)   | PhotoLuminescence (Excitation)        |
| RE      | Rare Earth                            |
| (SS)MBE | (Solid Source) Molecular Beam Epitaxy |
| TO      | Transversal Optical                   |
| TR      | Time-Resolved                         |
| VB      | Valence Band                          |