

LightTrans' Talk at EOS Topical Meeting on Diffractive Optics 2019

Design Concept for AR Lightguide Devices

Session time: 17 September 2019 | 12:00 – 12:20

Paper authors: S. Steiner¹, C. Hellmann², R. Knoth¹, S. Zhang¹, and F. Wyrowski³

¹ LightTrans International UG | Jena, Germany

² Wyrowski Photonics GmbH | Jena, Germany

³ Friedrich Schiller University Jena | Germany

Presenting Author: Stefan Steiner

Abstract

Numerous parameters must be considered in order to design a functional AR/MR device which provides sufficient image quality and optical performance. A successful design cannot be solely based on parametric optimization: the latter must be combined with systematic design strategies in order to provide initial parameter configurations for further optimization. We will discuss such a systematic approach and its implementation in the software VirtualLab Fusion.