

NEW PREMIUM COMPLEMENTARY ARTIS IOLS:

IMPROVED DIFFRACTIVE PROFILES FOR EDOF



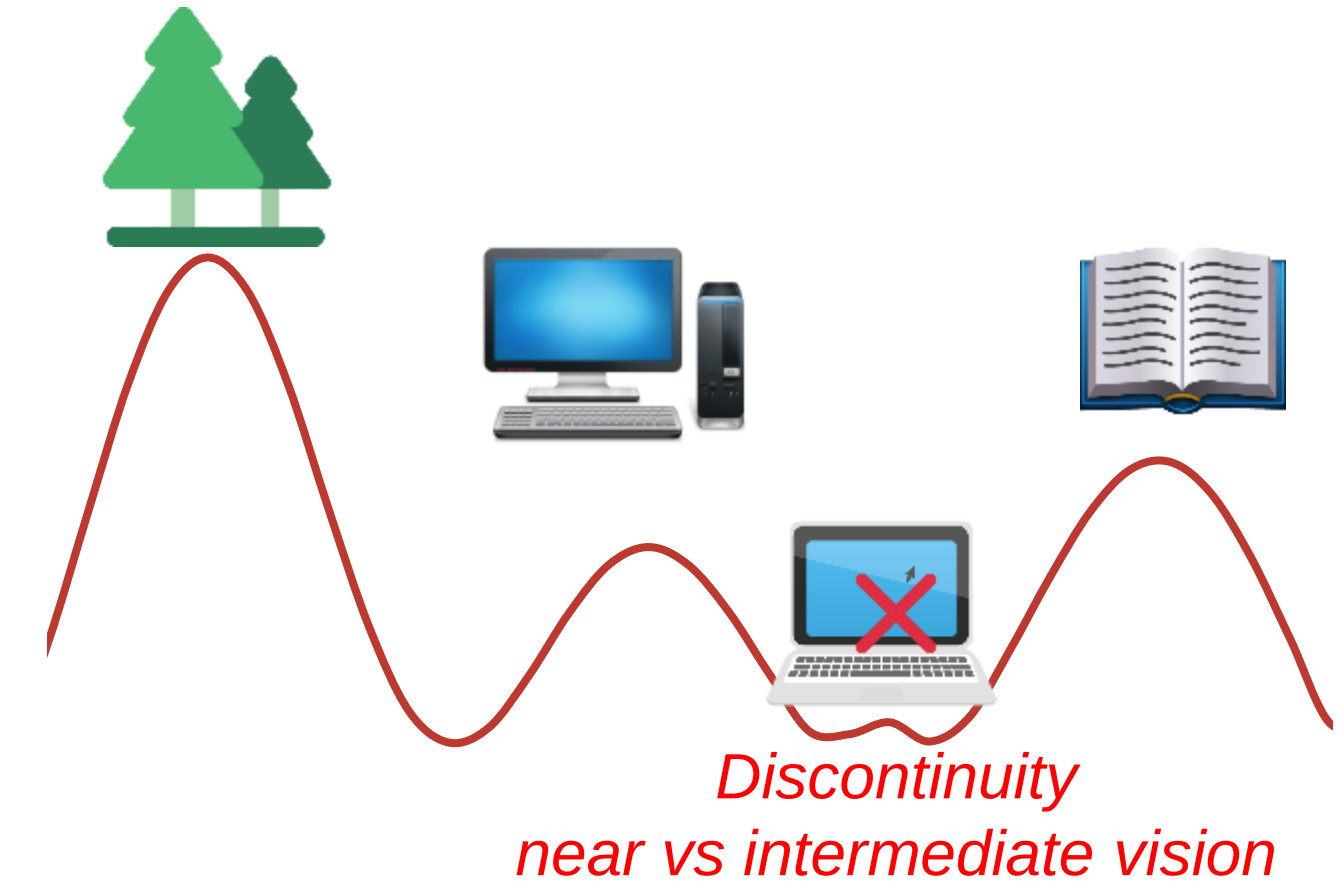
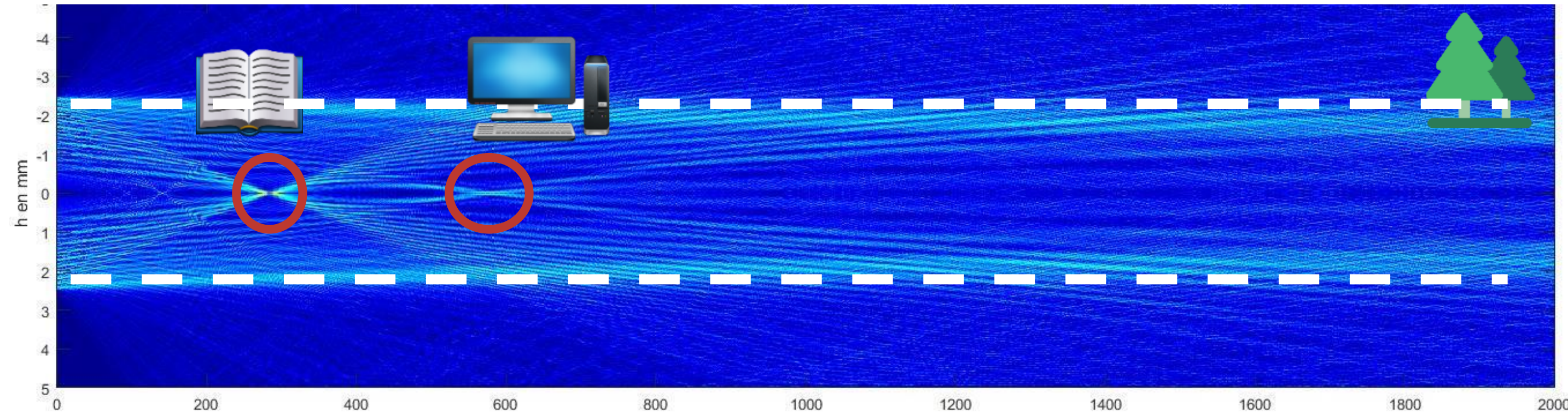
ARTIS SYMBIOSE

- COMPLEMENTARY IOLS
- CONTINUOUS PHASE

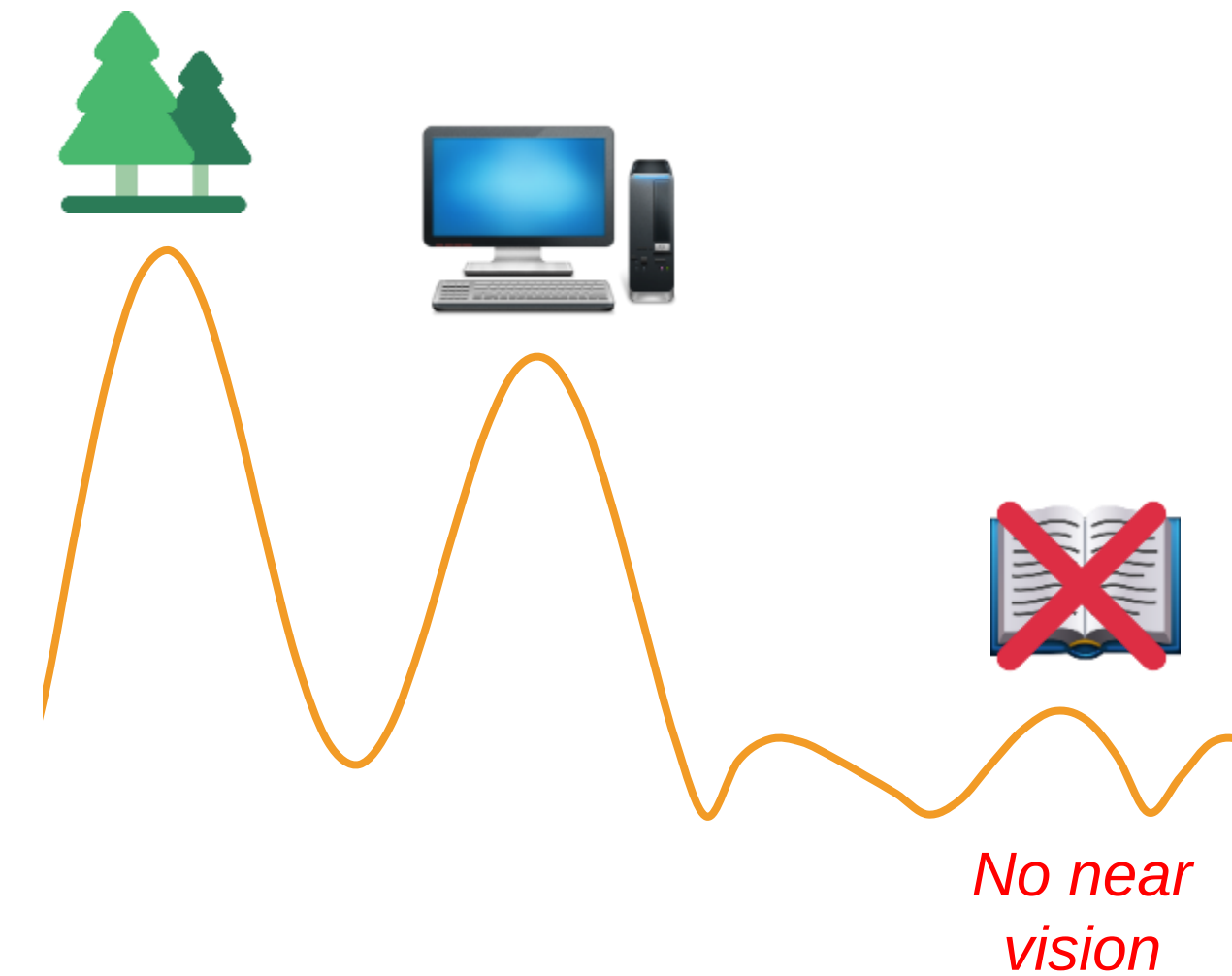
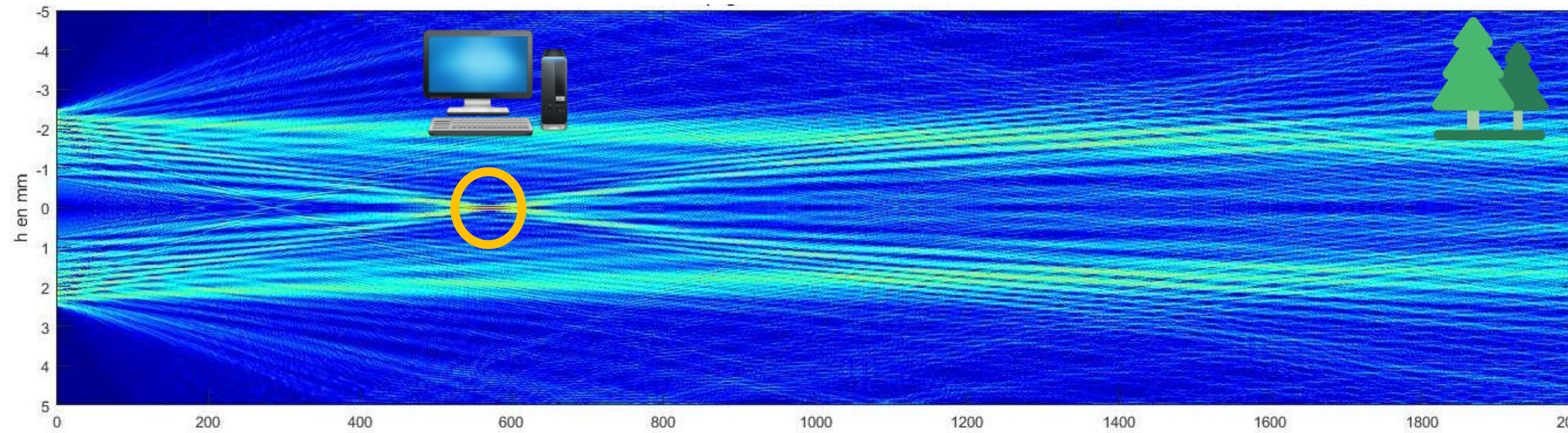


CHALLENGES OF NEW DIFFRACTIVE IOLS : BEYOND EDOF AND TRIFOCALS

TRIFOCAL



EDOF



- Objective of new diffractive IOLs -> freedom at all useful nearby distances



DESIGN OF INNOVATIVE IOLS : THE PAIRED ARTIS SYMBIOSE IOLS

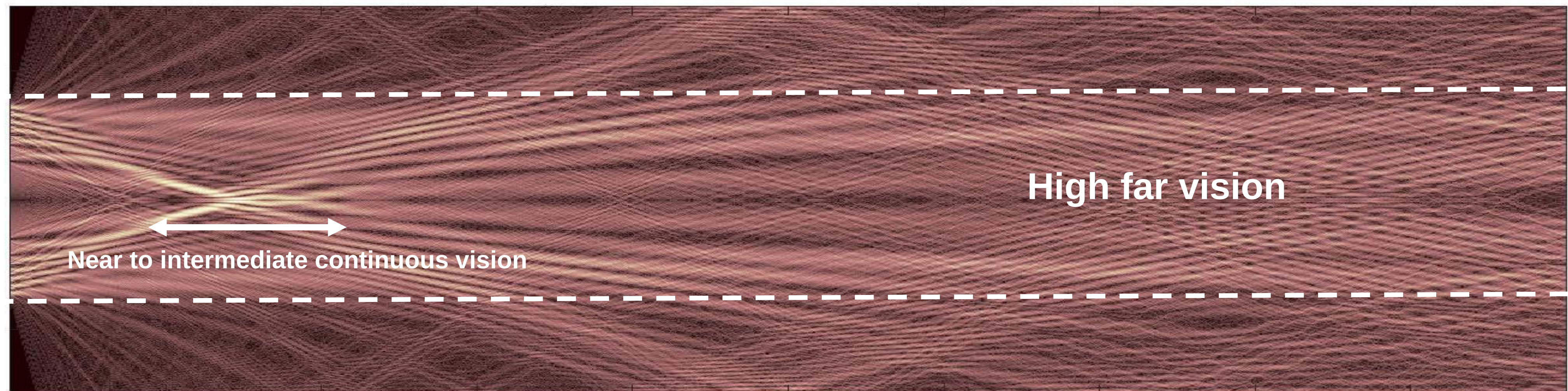
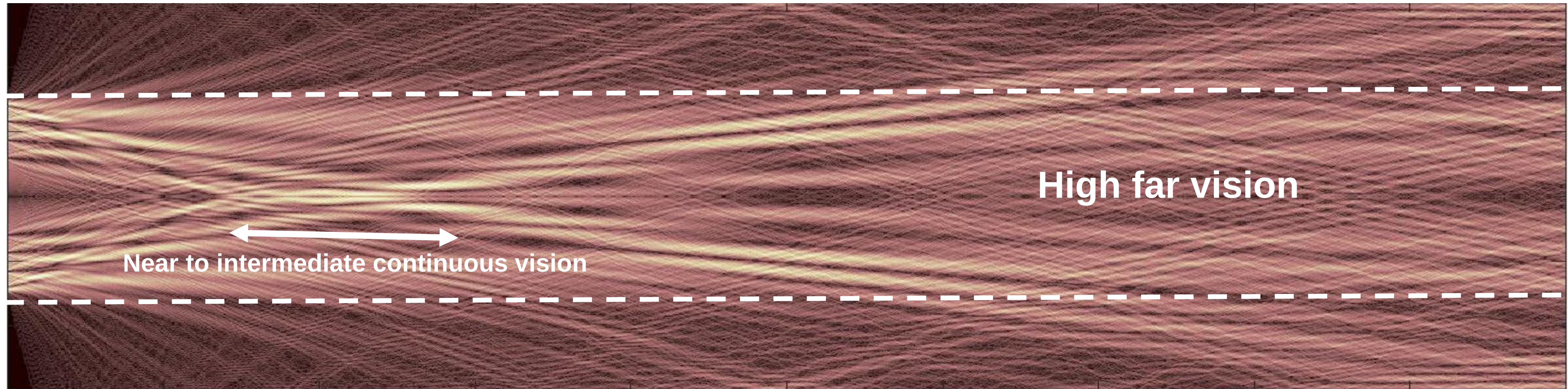


MID

&

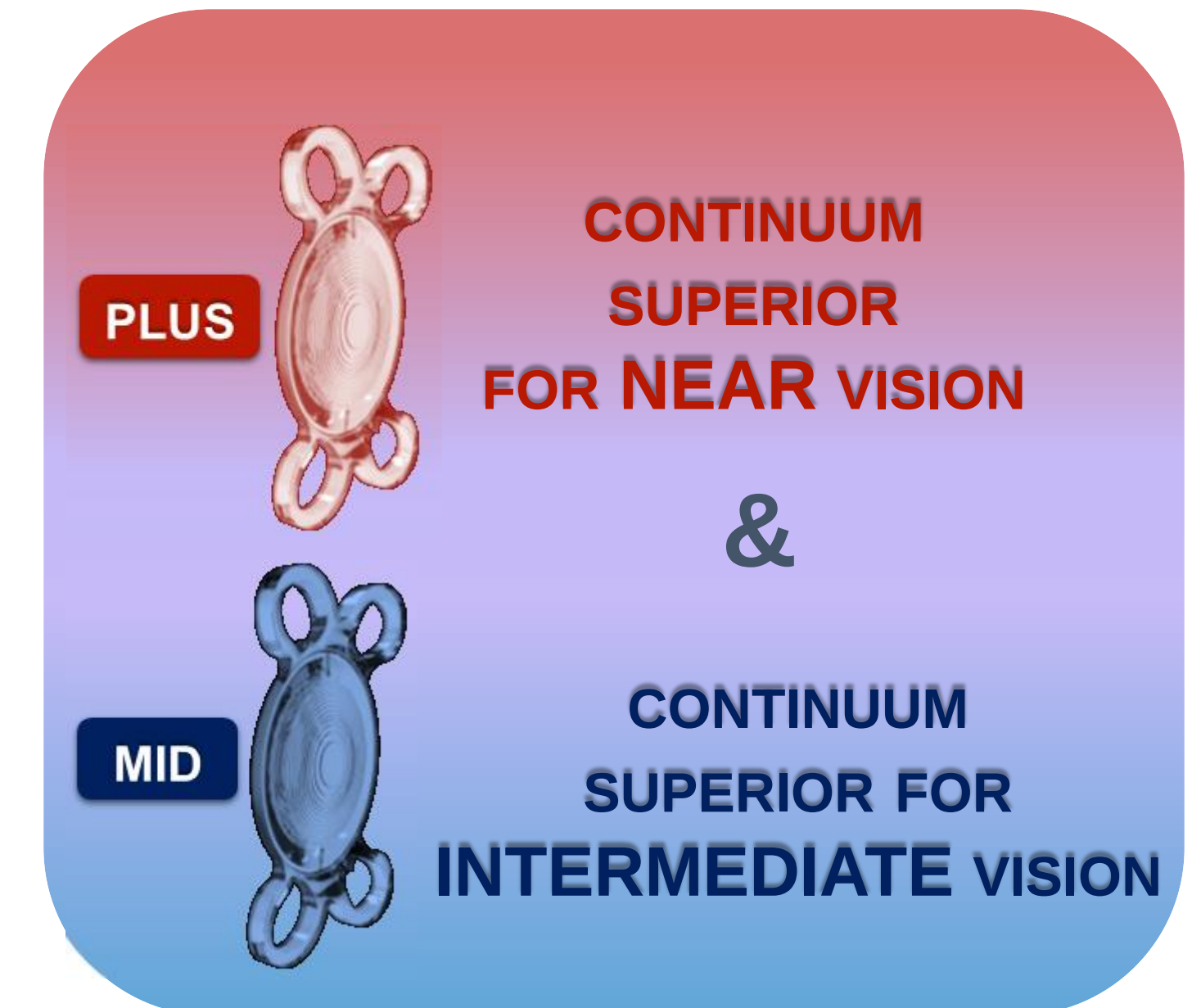
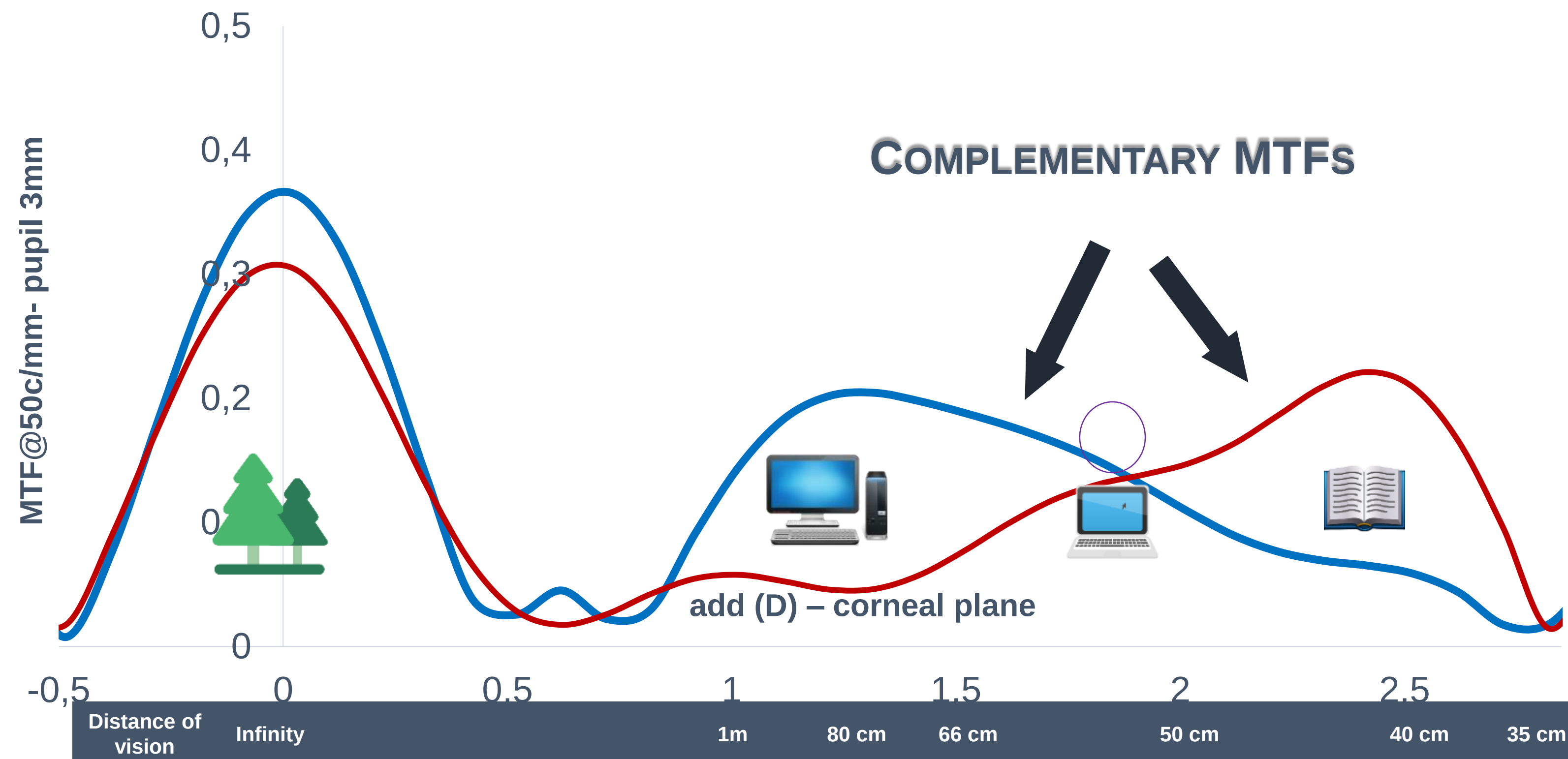


PLUS



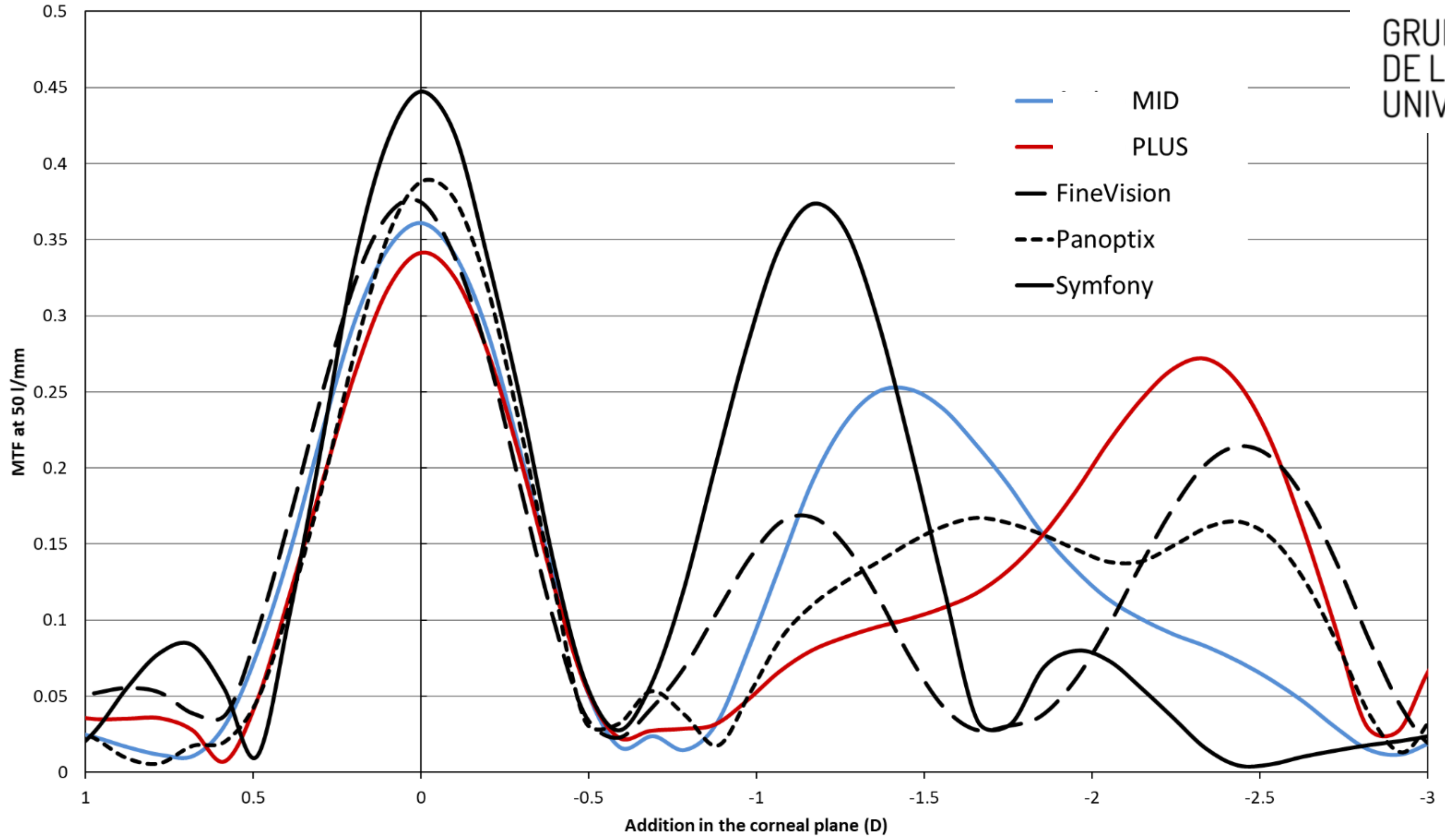
THE PAIRED ARTIS SYMBIOSE IOLS

2 COMPLEMENTARY DIFFRACTIVE PROFILES



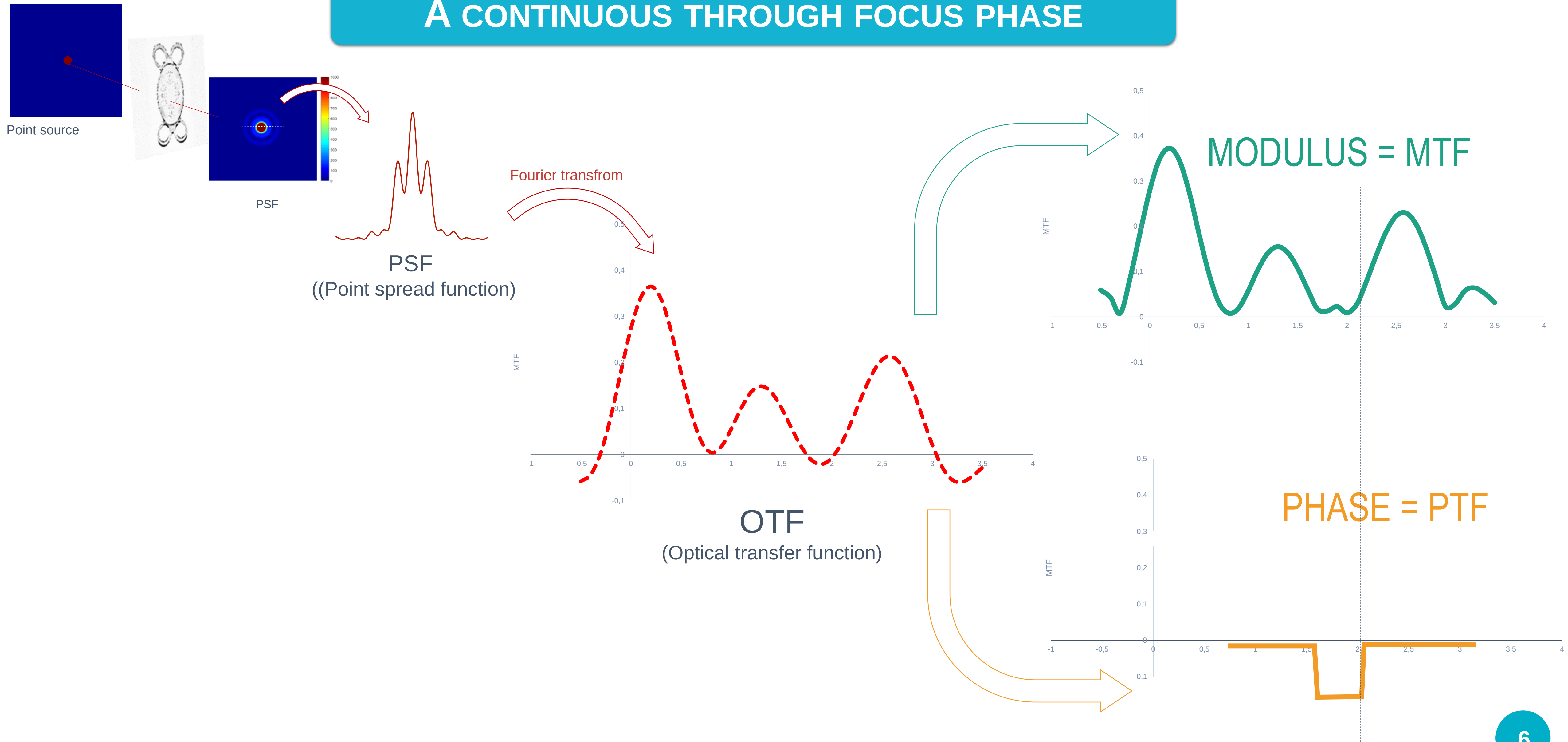
Optical bench measurements

PMTF (+0.28 μm , 3 mm, 50 cycle/mm, 550 nm) (given N. Lopez-Gil & J. Zapata-Diaz)

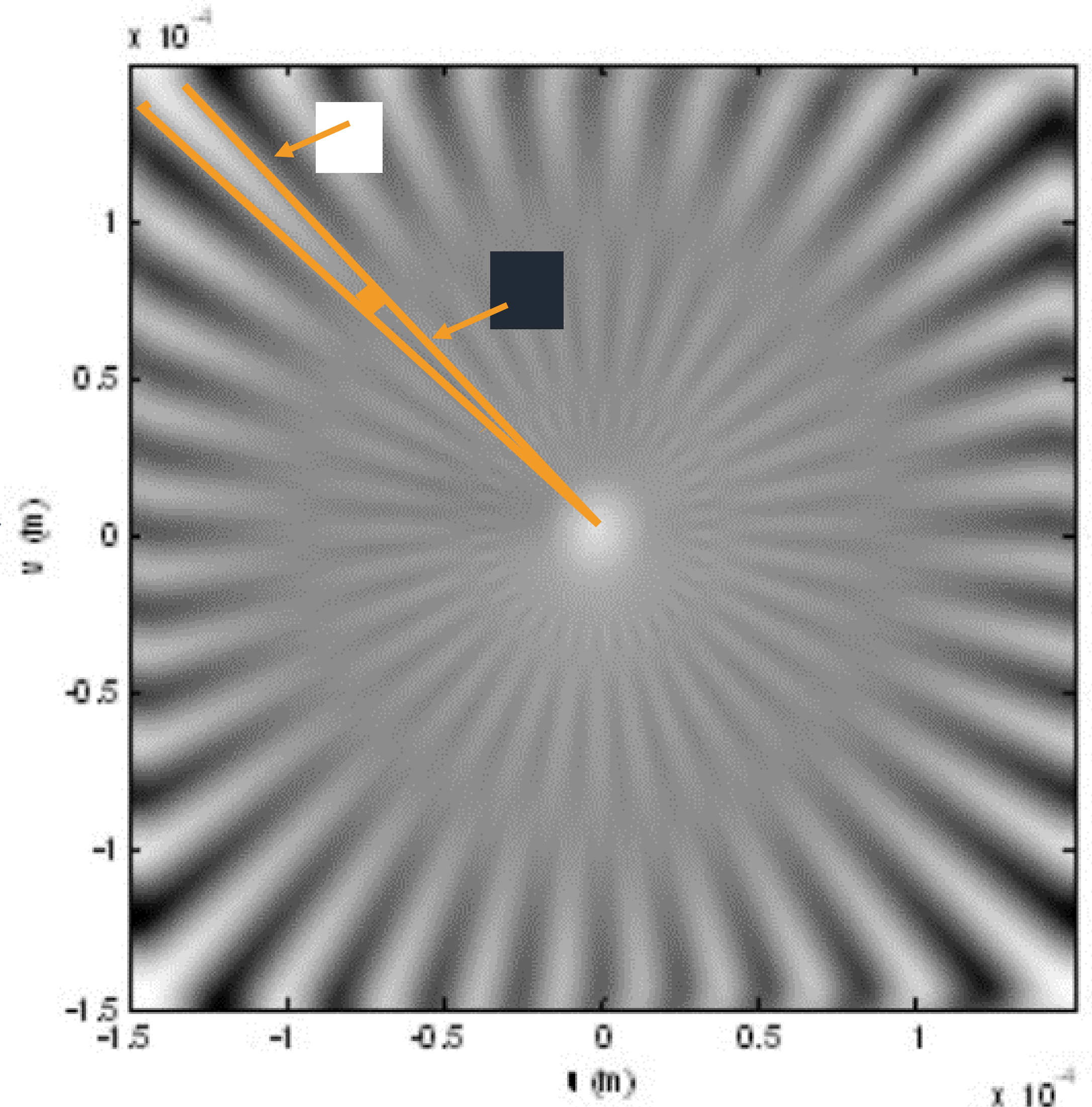
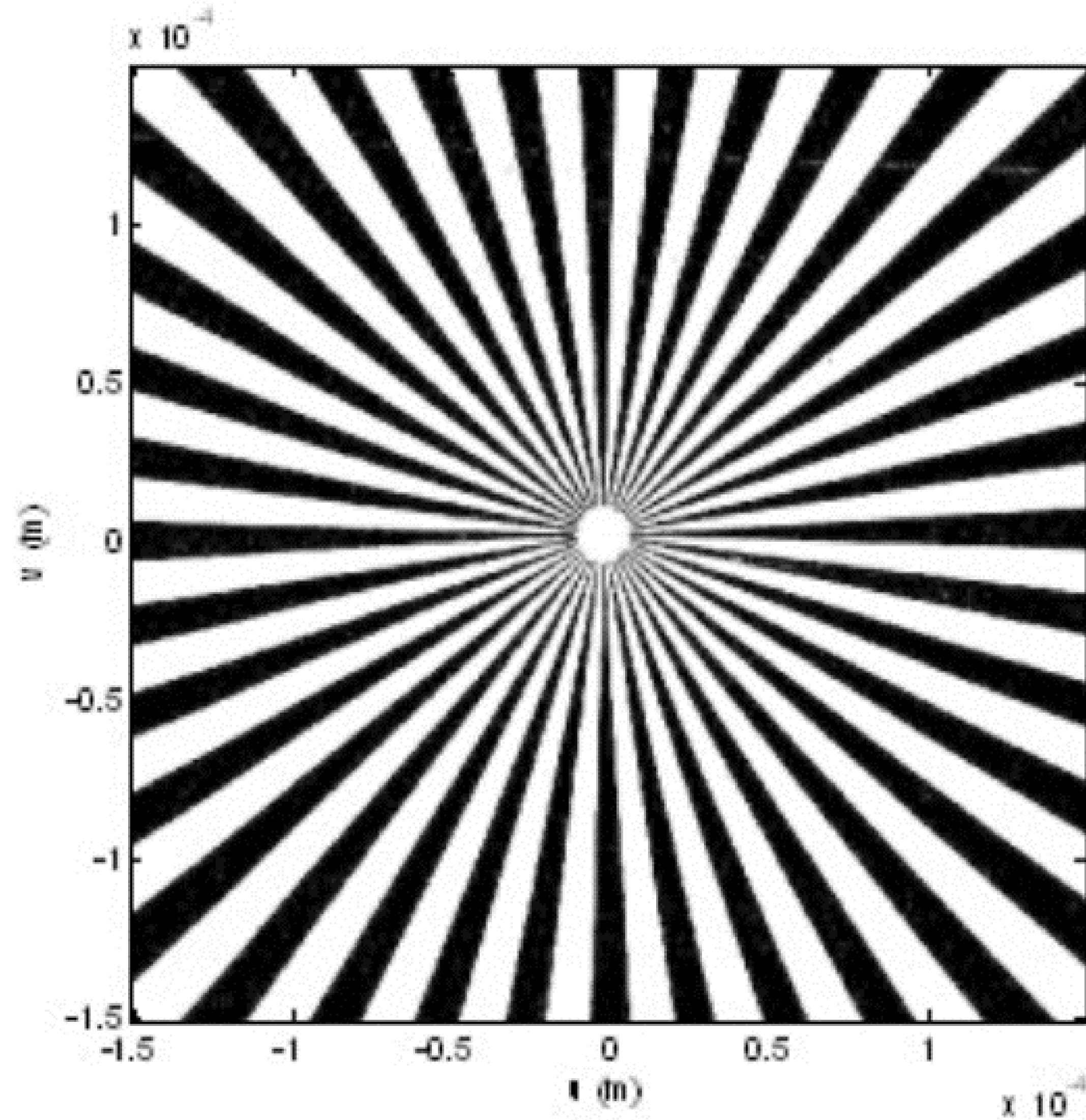


THE PAIRED ARTIS SYMBIOSE IOLS

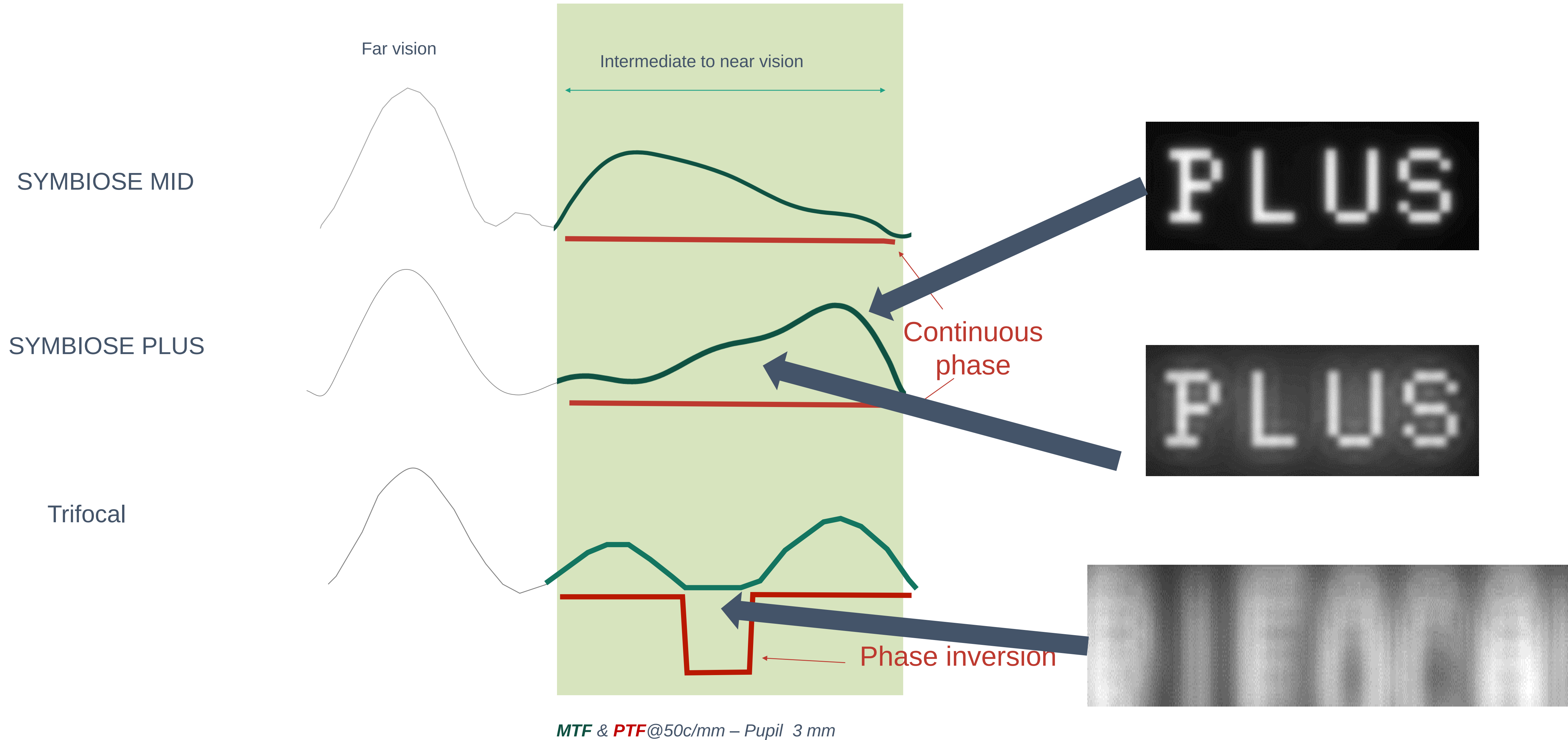
A CONTINUOUS THROUGH FOCUS PHASE



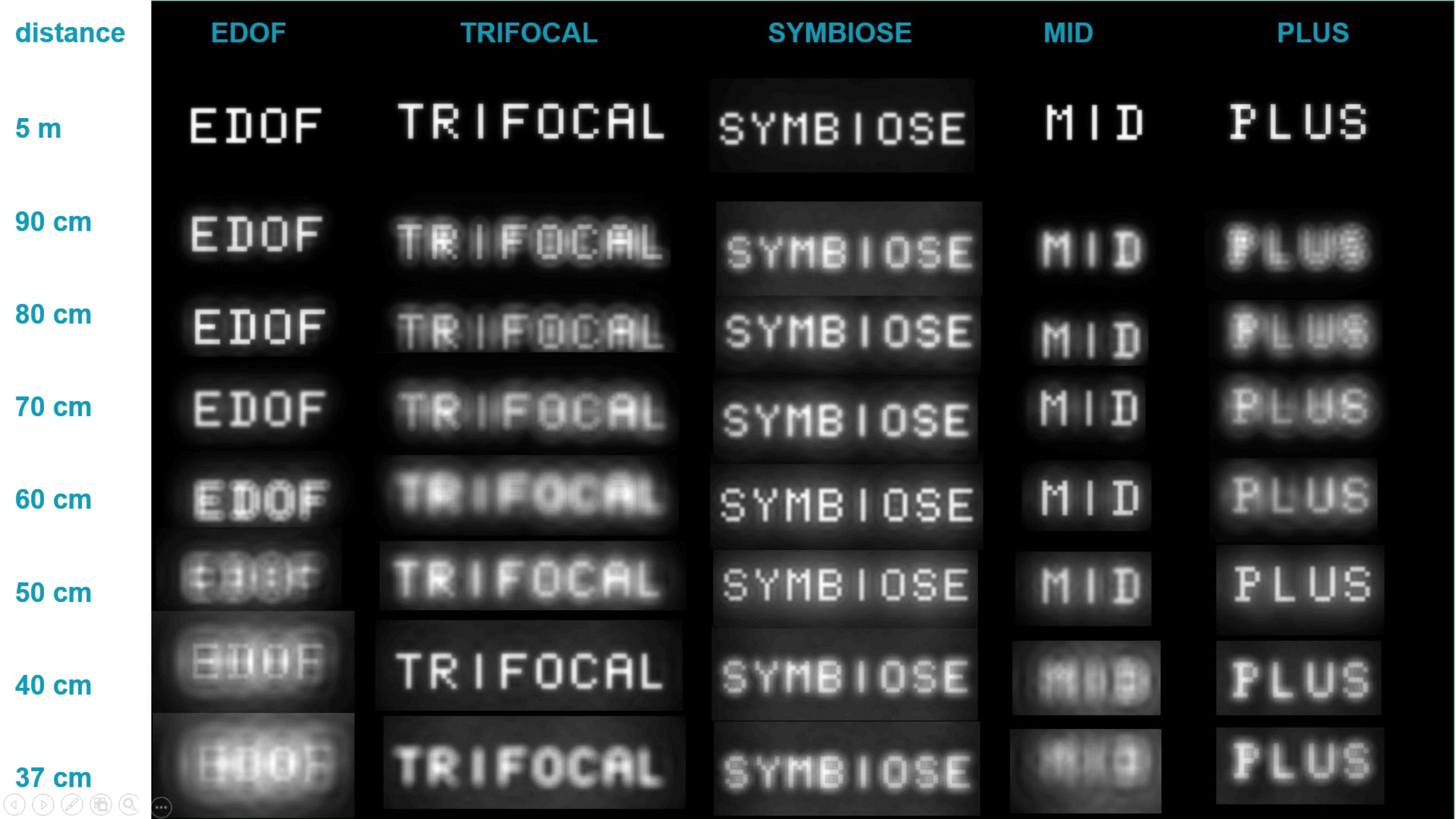
- WHAT IS A PHASE INVERSION?



THE PAIRED ARTIS SYMBIOSE IOLS

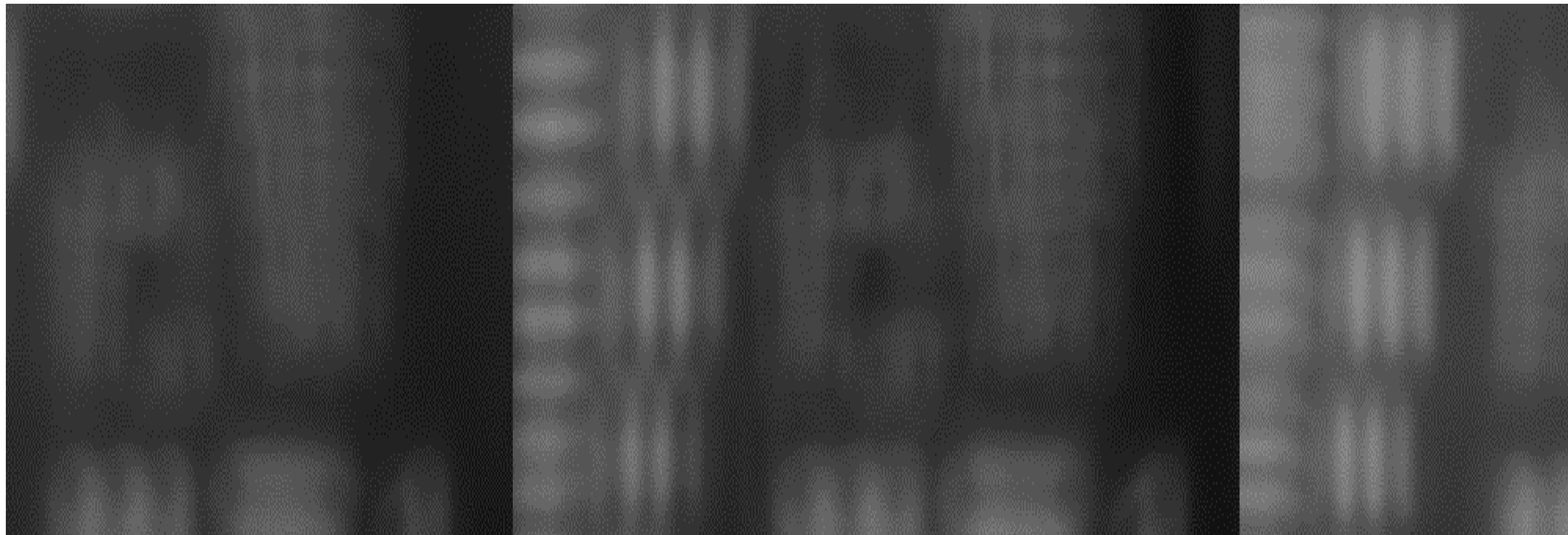


Artis Symbiose MID & PLUS have a continuous phase from intermediate to near vision



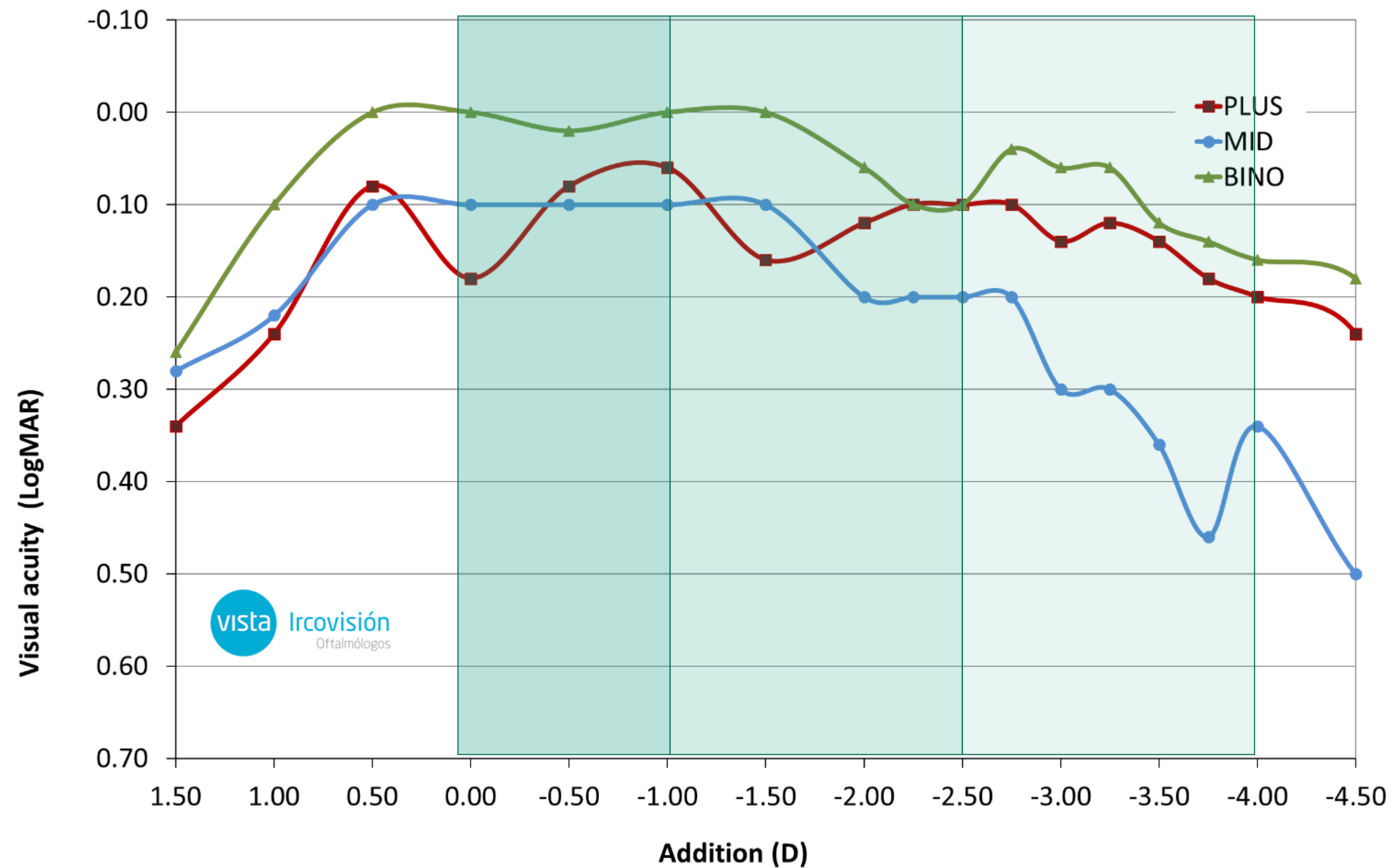
Optical bench measurement:

- Through-focus USAF target imaging (N. Lopez-Gil, JF Zapata-Diaz)

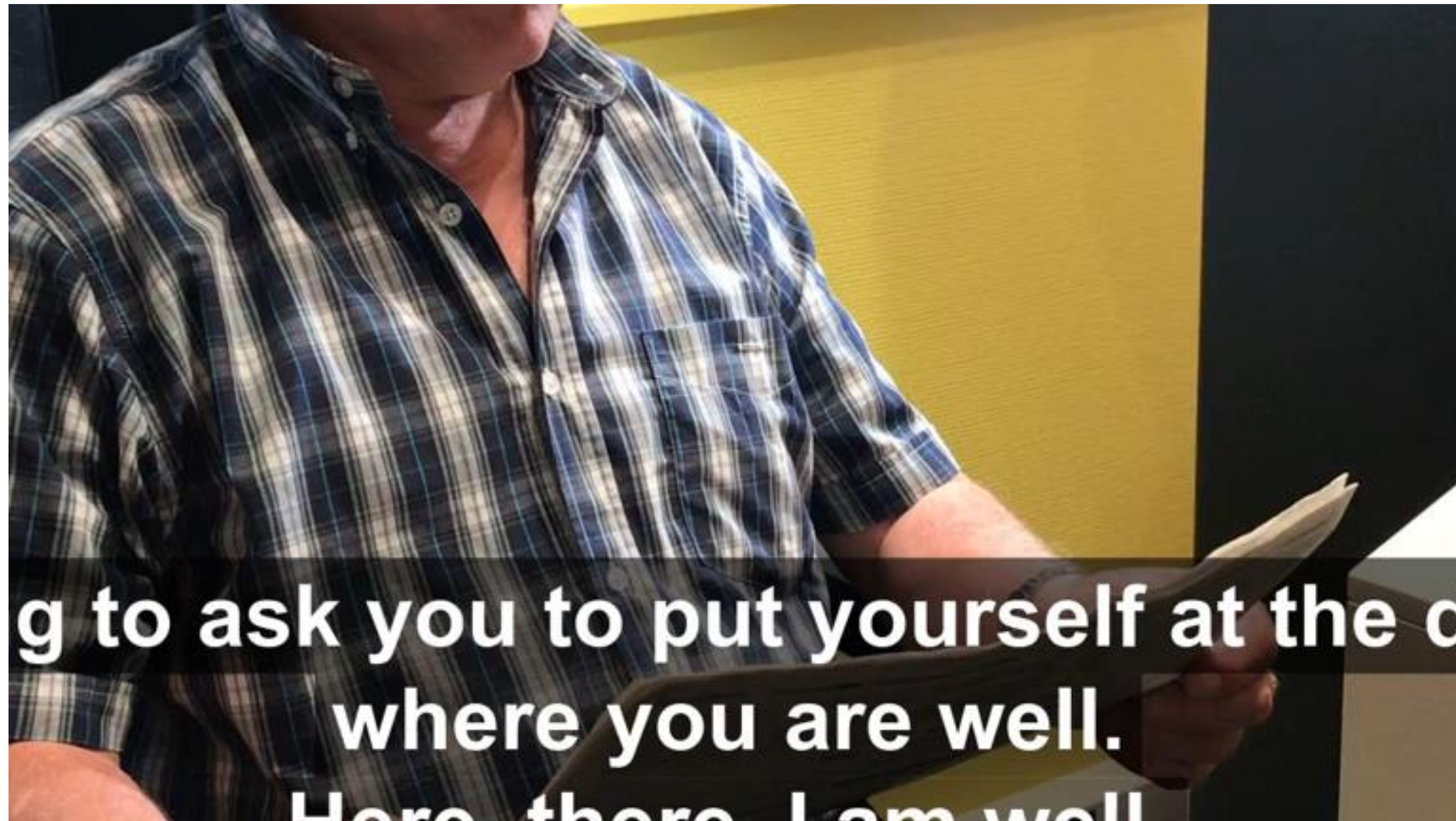


First clinical feedbacks:

- First patient measured at Dr Lajara/JF Zapata-Diaz



First clinical feedbacks:



Thanks for your attention

C r i s t a l e n s

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- [1] Mandola J, Castignoles F, Philipakki E. Optical evaluation of new-design multifocal IOLs with extended depth of focus, VPO conference, Athens, Greece, August 29-31 2018.
 - [2] Castignoles F, New EDOF IOL set, 36th ESCRS congress, Vienna, Austria, September 22-28 2018.
 - [3] Castignoles F, New set of complementary extended-depth-of-focus IOL: comparison with the state-of-the-art, ARVO meeting, Vancouver, Canada, April 28- May 2 2019.
 - [4] Philipakki E, Gobin L, Mandola J, Lamy S, Castignoles F. Optical evaluation of new-design multifocal IOLs with extended depth of focus. *J Opt Soc Am A Opt Image Sci Vis.* 2019 May 1;36(5):759-767.