

Fig. 6. Absolute group delay measurements of a 69.9 cm long few-mode fiber measured using Balanced Spectral Interferometry and Virtual Reference Interferometry

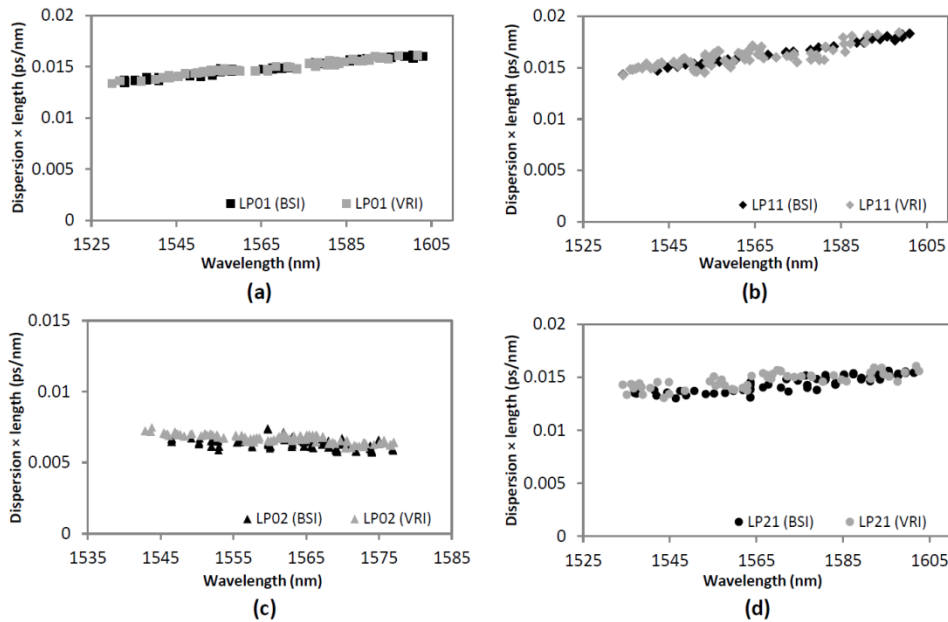


Fig. 7. Comparison of the dispersion \times length measurements for the (a) LP01 mode, (b) LP11, (c) LP02 mode, and (d) LP21 mode of a 69.9 cm length of few-mode fiber measured via Balanced Spectral Interferometry and Virtual Reference Interferometry.

5. Conclusion

We have demonstrated the measurement of first- and second-order dispersion of polarization modes in a Panda PM fiber and transverse modes in an FMF using VRI. The all-fiber experimental setup is simple, convenient and fast and allows sufficiently separated and excited fiber modes to be characterized simultaneously in a single scan.

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