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Combination of B-Spline and Legendre functions in random regression models to fit growth curve of Moghani sheep

Short title: Combination of functions to fit sheep growth curve

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Highlights

- Legendre and B-Spline functions were compared in random regression models.
- B-Splines in fixed and Legendre in random parts improved goodness of fit.
- Legendre polynomials in random parts, enhanced convergence ability of the models.
- Different functions resulted in similar estimates for body weight of sheep.
- B-Splines have high potential for genetic evaluation of body weight in sheep.

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