## Optimum Design for Very Sparse Sampling in Population Models

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## ABSTRACT

In oncology studies in children only very few observations can be made per individual such that no individual curve can be fitted to the data. Nevertheless estimation of the population location parameters may still be possible taking the random coefficients into accounts. For some extreme situations, where only one observation is available per individual, we may analytically derive optimum designs based on the geometry of the design locus, while for two observations per individual we may obtain some numerical characterizations.