

Supplementary material: Unraveling the dynamics of emotional regulation and parental warmth across early childhood: Prediction of later behavioral problems

Parameters	Est.	(SE)	Std. Est.	(SE)
Within-Person Part				
<i>Lagged effects</i>				
ER T2 → T2	0.36***	(0.07)	0.30***	(0.06)
ER T2 → T3	0.33***	(0.05)	0.32***	(0.05)
WARM T1 → T2	-0.03	(0.08)	-0.03	(0.08)
WARM T2 → T3	0.16*	(0.07)	0.13*	(0.06)
<i>Cross-Lagged effects</i>				
ER T1 → WARM T2	0.08*	(0.04)	0.14*	(0.06)
ER T2 → WARM T3	0.02	(0.03)	0.03	(0.05)
WARM T1 → ER T2	0.01	(0.09)	0.01	(0.05)
WARM T2 → ER T3	0.25**	(0.08)	0.11**	(0.04)
<i>Distal Outcomes (Extensions)</i>				
ER T3 → CP (T4)	-0.20***	(0.02)	-0.37***	(0.03)
ER T3 → ES (T4)	-0.13***	(0.03)	-0.16***	(0.04)
WARM T3 → CP (T4)	-0.02	(0.04)	-0.02	(0.04)
WARM T3 → ES (T4)	-0.12*	(0.05)	-0.08*	(0.03)
<i>Correlations</i>				
T1	0.01	(0.01)	0.12*	(0.06)
T2	0.02*	(0.01)	0.12*	(0.05)
T3	0.01	(0.01)	0.07	(0.03)
Between-Person Part				
ER & WARM	0.02**	(0.01)	0.18**	(0.05)
<i>Covariates</i>				
GENDER → ER	-0.11***	(0.02)	-0.12***	(0.02)
SES → ER	0.03	(0.02)	0.04	(0.02)
AGE → ER	0.05*	(0.02)	0.06*	(0.02)
AGE → WARM	-0.05**	(0.02)	-0.08**	(0.02)
EMO (T1) → ER	-0.33***	(0.01)	-0.59***	(0.03)
EMO (T1) → WARM	-0.02*	(0.01)	-0.06*	(0.02)
Controlling Distal Outcomes				
GENDER → CP (T4)	0.06***	(0.02)	0.11***	(0.02)
SES → CP (T4)	-0.03*	(0.01)	-0.08**	(0.03)
SES → ES (T4)	-0.05**	(0.02)	-0.09**	(0.03)
EMO (T1) → CP (T4)	0.11***	(0.01)	0.32***	(0.02)
EMO (T1) → ES (T4)	0.13***	(0.02)	0.24***	(0.03)

Table S1. Unstandardized and standardized estimates, and standard errors, of the RI-CLPM.

ER = Emotion Regulation; WARM = Parental Warmth; ES = Emotional Symptoms; CP = Conduct Problems; GENDER = Child Gender (1 = girls, 2 = boys, i.e., boys compared to girls); AGE = Child Age Group (1 = youngest, 2 = oldest, i.e., oldest compared to youngest); SES = Family SES; EMO = Emotionality. All values are rounded to two decimals. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.

	Slope Mean (Estimate / <i>P</i>)	Slope Variance (Estimate / <i>P</i>)	RMSEA	CFI
WARM	-0.037 / < 0.001	0.004 / 0.305	0.244	0.259
ER	0.098 / < 0.001	0.013 / 0.151	0.199	0.511

Table S2. Summary of latent growth curve models (LGCMs) estimated for parental warmth and emotion regulation across three time points.

ER = Emotion Regulation. WARM = Parental Warmth. Estimates refer to the latent slope mean and slope variance for each construct. *P*-values correspond to model-estimated parameters. RMSEA and CFI reflect model fit indices.

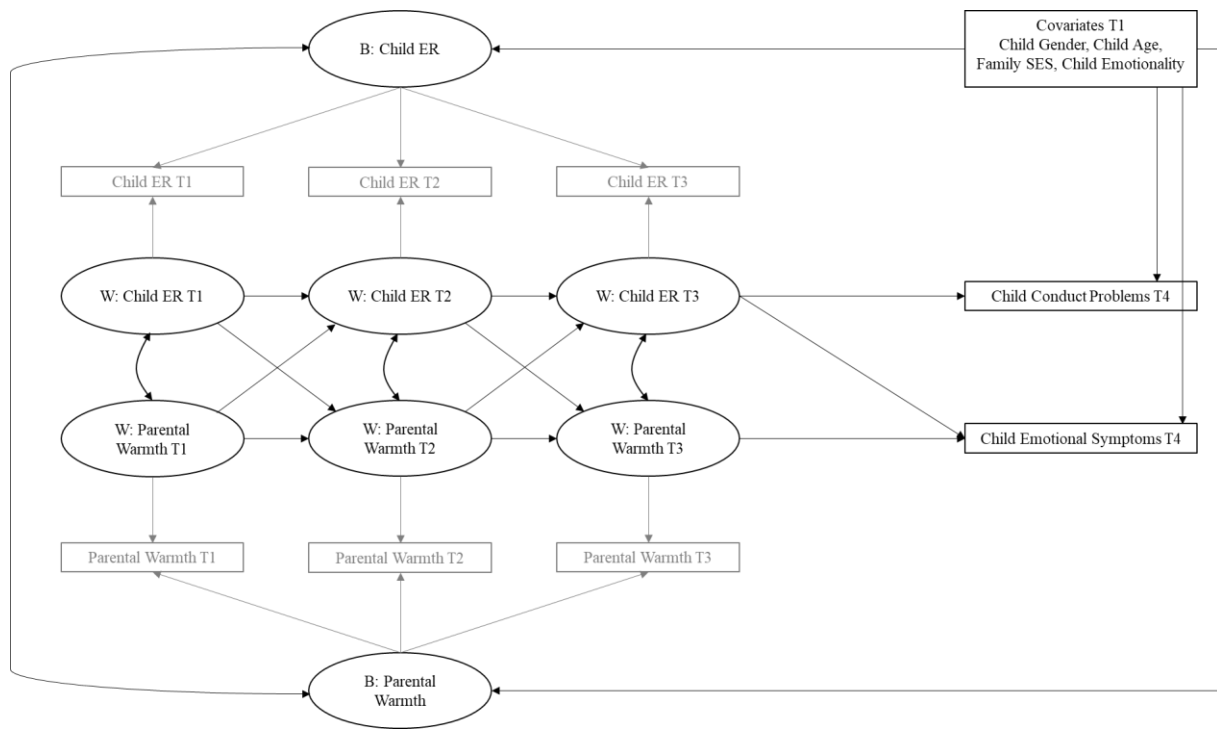


Figure S1. Model diagram of the relationship between Child ER and Parental Warmth using RI-CLPM, with the within-child variations in ER and Warmth at T3 predicting Child Conduct Problems and Emotional Symptoms at T4.

B = Between-person component, W = Within-person component. Child Gender, Age, Emotionality and Family SES at baseline were added as control variables on the effects over Child Conduct Problems/Emotional Symptoms and over the between-child differences in Child ER and Parental Warmth (i.e., random intercepts).