

Activities in toddler classrooms: A multilevel analysis of educator-child interactions

Rochana Mroué
PhD student

Introduction



Quality of educator-child interactions

15 to 36 months

Structural and Process quality

▪ Structural quality



- Educator's qualifications
- Professional development
- Educator-child ratio

▪ Process quality

- Quality of educator-child interactions



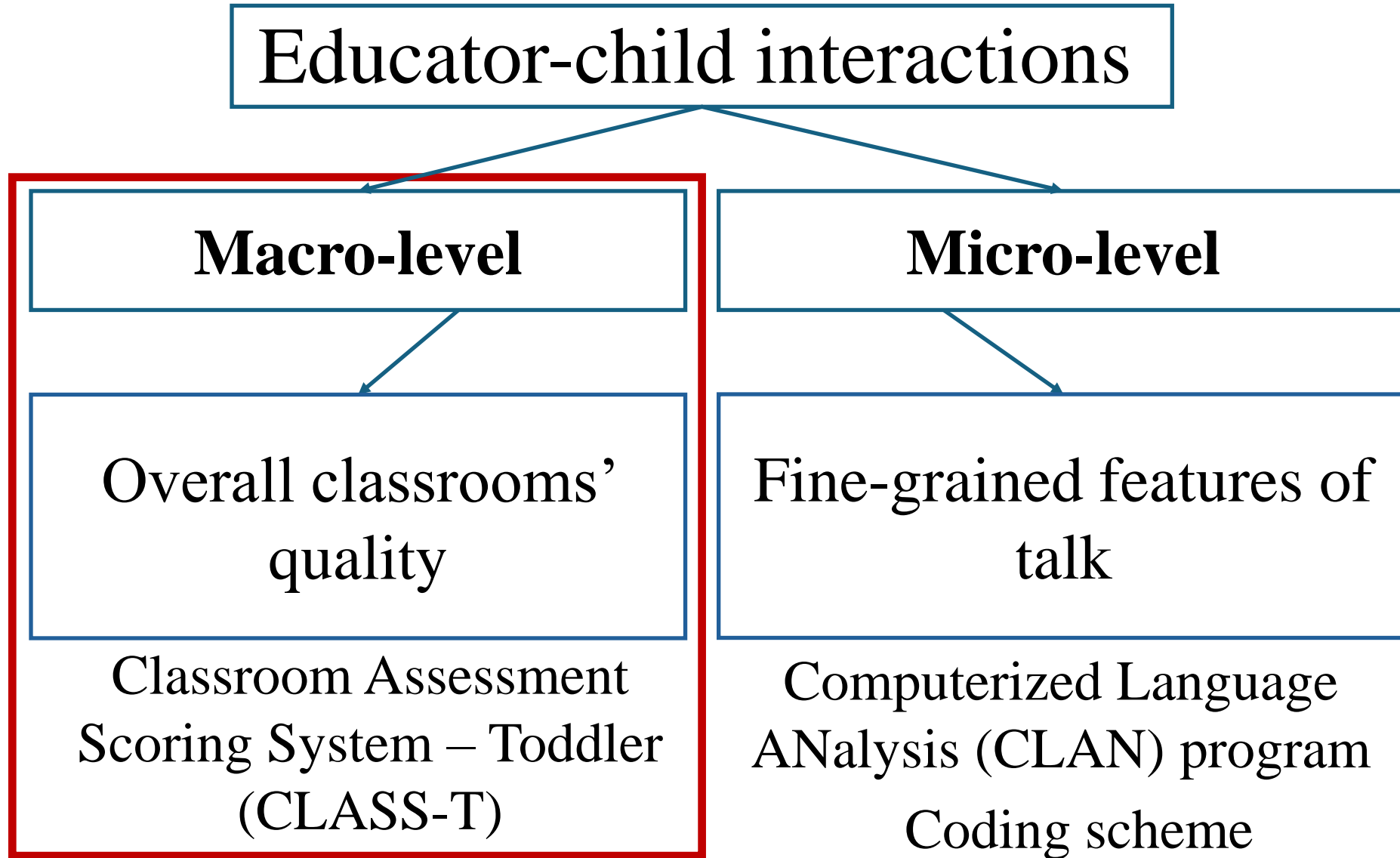
> **Language development**

> **Cognitive development**

> **Socio-emotional development**

Academic achievement

Focus on Process Quality



Macro-level : CLASS-T Domains and Dimensions

- Classroom Assessment Scoring System – Toddler (CLASS-T)

Domains :

**Emotional and
Behavioral Support**

**Engaged Support for
Learning**

Dimensions :

Positive climate
Negative climate
Teacher Sensitivity
Regard for child Perspectives
Behavior Guidance

Facilitation of Learning
Quality of Feedback
Language Modeling

① ② ③ ④ ⑤ ⑥ ⑦
LOW MID HIGH

Literature Findings

- Classroom Assessment Scoring System – Toddler (CLASS-T)

Domains :

Emotional and Behavioral Support

Engaged Support for Learning

① ② ③ ④ ⑤ ⑥ ⑦
LOW MID HIGH

① ② ③ ④ ⑤ ⑥ ⑦
LOW MID HIGH

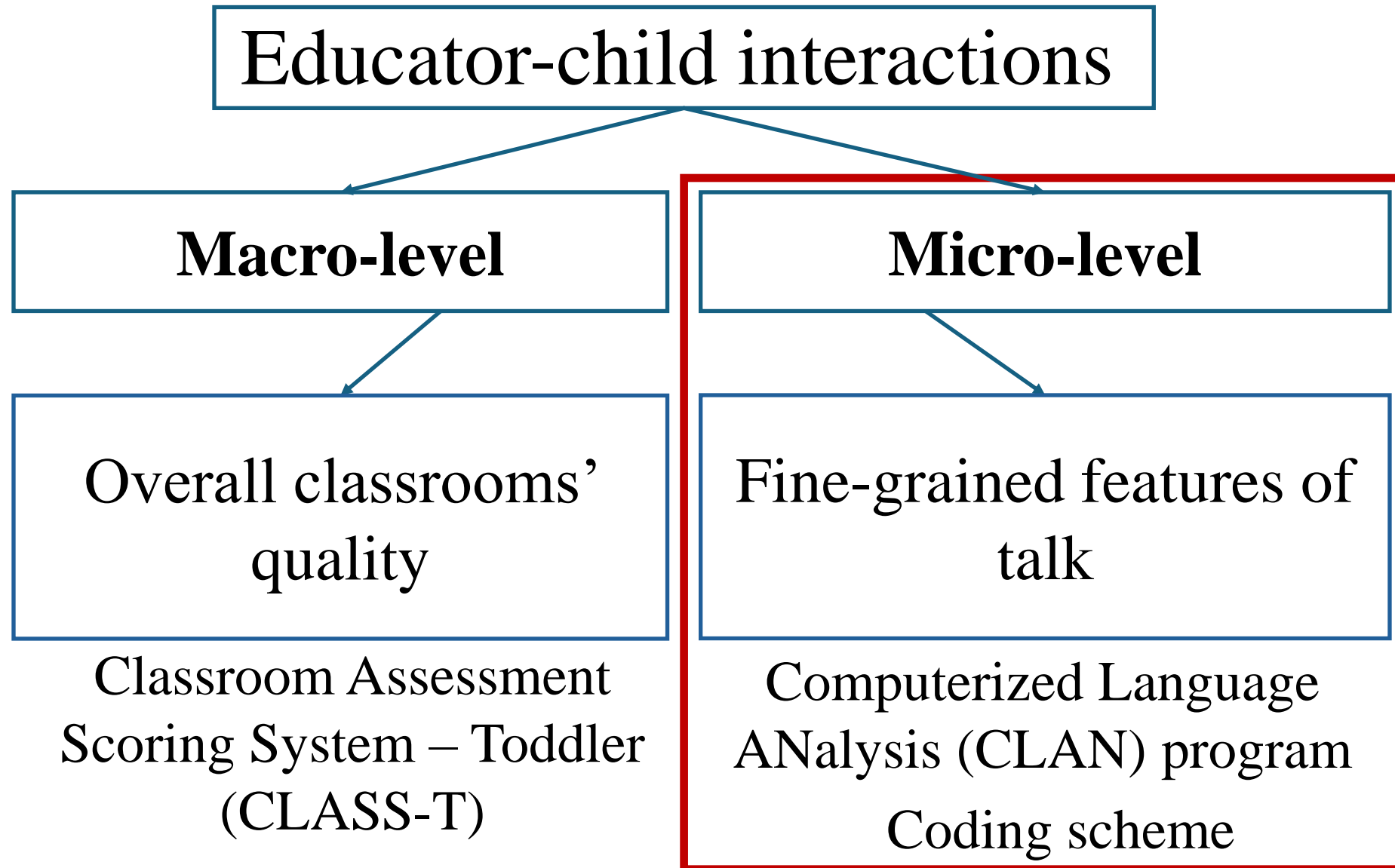
Cadima et al. 2023



ACTIVITIES



Focus on Process Quality



Micro-level : fine-grained features of educator-child talk



Linguistic
dimension

MLU-w
Lexical Diversity

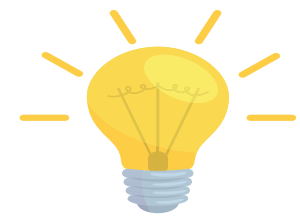
Computerized
Language ANalysis
(CLAN) program



Interactive
dimension

Responsive
communication
Expansions-recasts

Coding scheme



Conceptual
dimension

Decontextualized talk
Pretend talk

Coding scheme

Literature Findings



Linguistic
dimension

MLU-w
Lexical Diversity

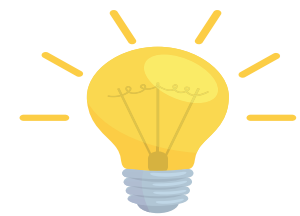
Computerized
Language ANalysis
(CLAN) program



Interactive
dimension

Responsive
communication
Expansions-recasts

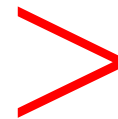
Coding scheme



Conceptual
dimension

Decontextualized talk
Pretend talk

Coding scheme



ACTIVITIES

Chaparro-Moreno et al. 2022 ; Gest et al. 2006

Research Gap

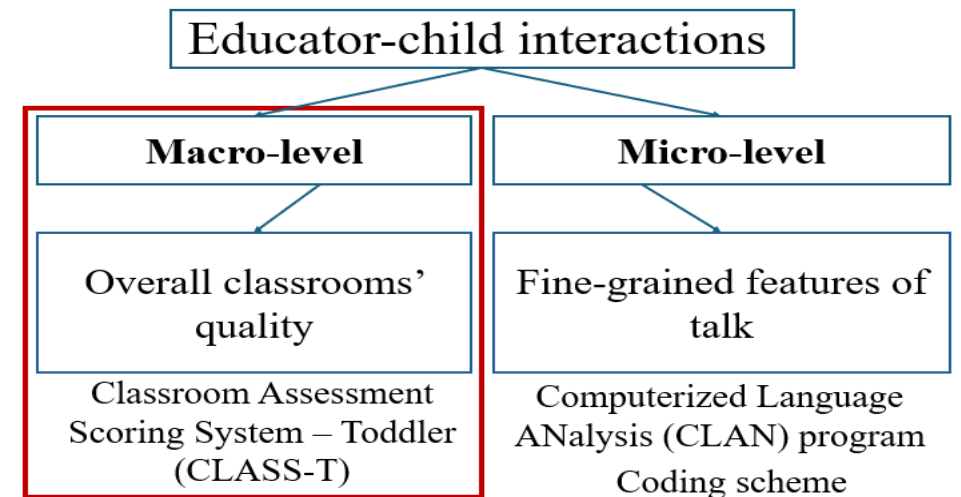
Not much data on the overall classrooms' quality (macro-level) and fine-grained features of talk (micro-level) in childcare centers.

No studies that combine both types of analysis.

Research question and aims

To what extent do overall classrooms' quality (macro-level) and features of educator-child talk (micro-level) vary across activities ?

- Aim 1 : Examine the overall classrooms' quality (macro-level) across activities.



Overall classrooms' quality

Method : overall classrooms' quality

40 CLASSROOMS

Each toddler's
classroom was visited
once

15 to 36 months old

Ratio 1/8

Asked them to follow
their daily routines



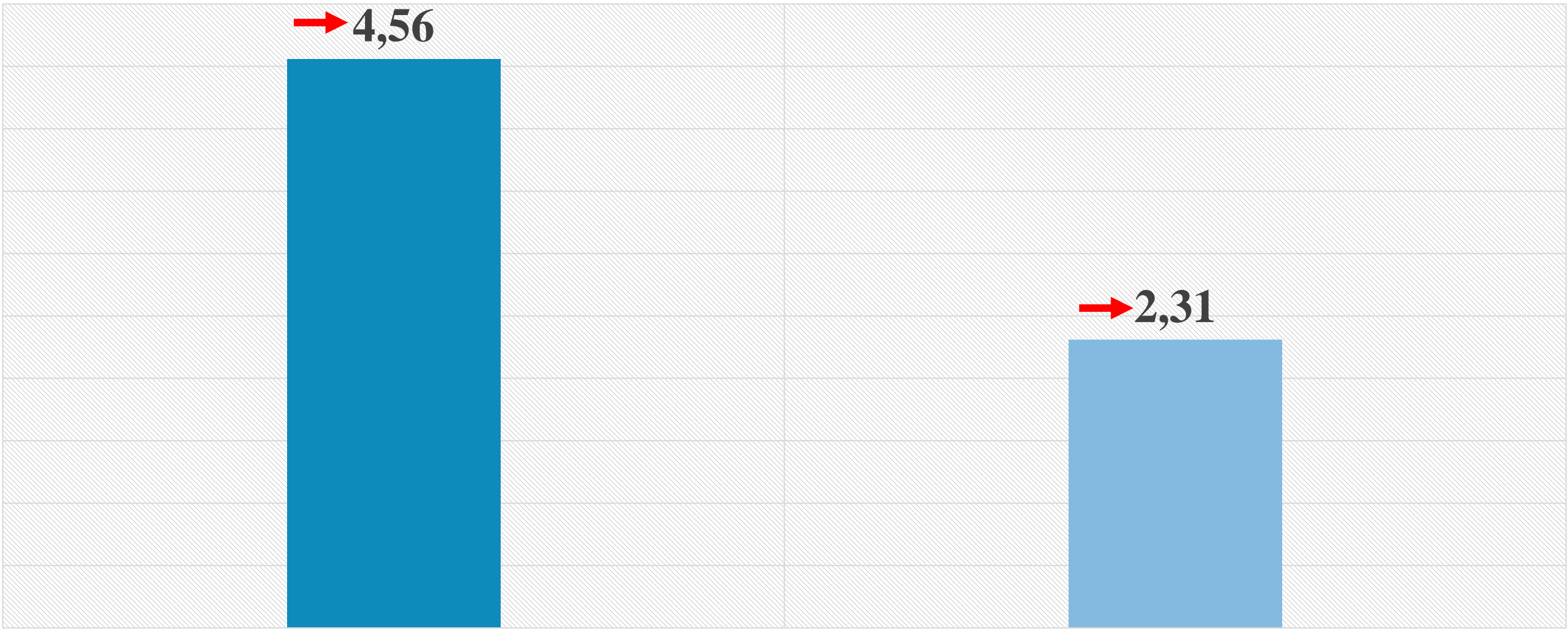
CLASS-TODDLER



40 global ratings

Four cycles of 20-min
were randomly chosen
from each videotaped
observation to be rated

Descriptive statistics for overall classrooms' quality (CLASS-T)



Emotional and Behavioral Support

Engaged Support for Learning

- ①
 - ②
 - ③
 - ④
 - ⑤
 - ⑥
 - ⑦
- LOW** **MID** **HIGH**

**Overall classrooms'
quality accros Activities**

Method : overall classrooms' quality across activities

CLASS-TODDLER

Each rated cycle was 15 to 20 min

Extracted all observational cycles coded as :

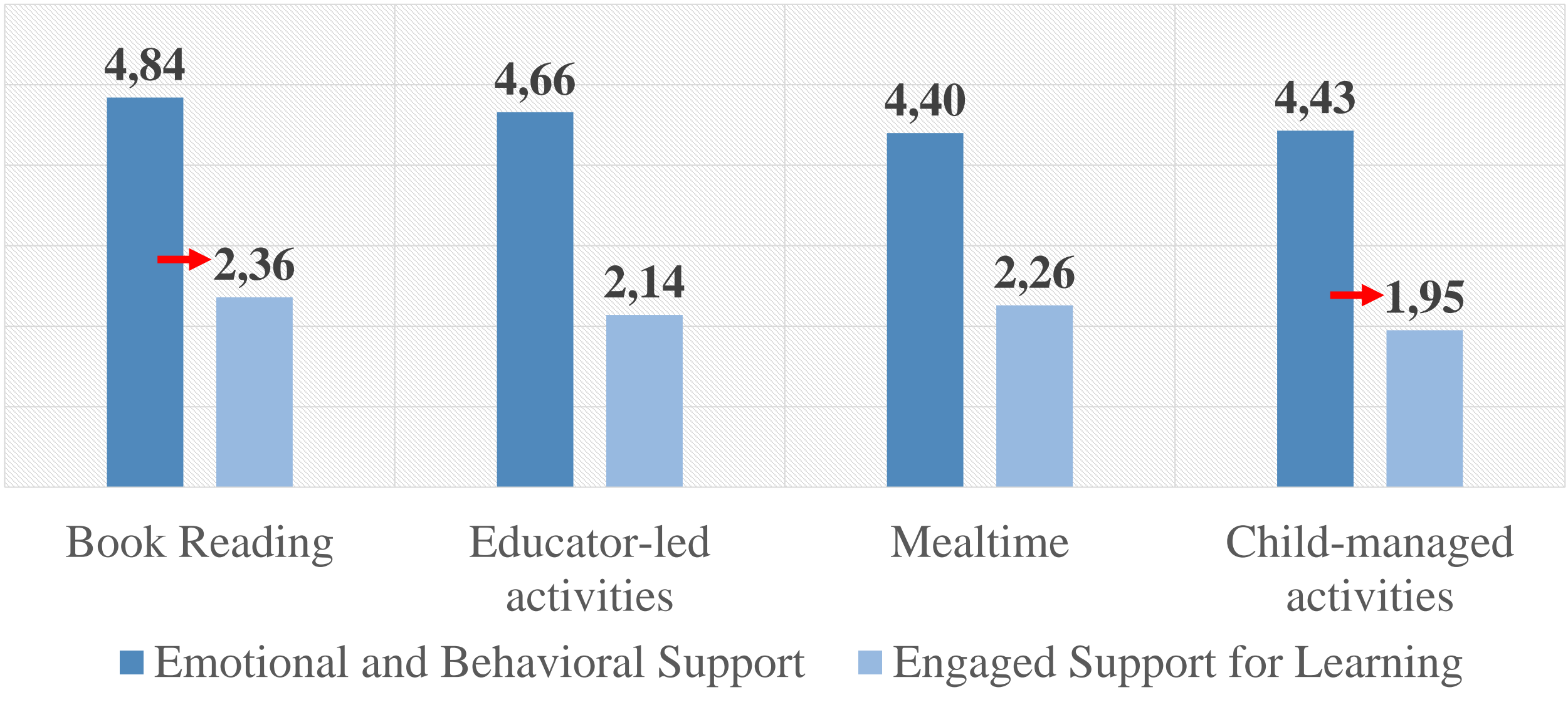
- **Book Reading** ($N=22$)
- **Educator-led activities** ($N=24$)
- **Mealtime** ($N= 39$)
- **Child-managed activities** ($N= 37$)



Definitions of each activity

Specific criterion for start and end of observation for each activity

Descriptive statistics across activities (CLASS-T)

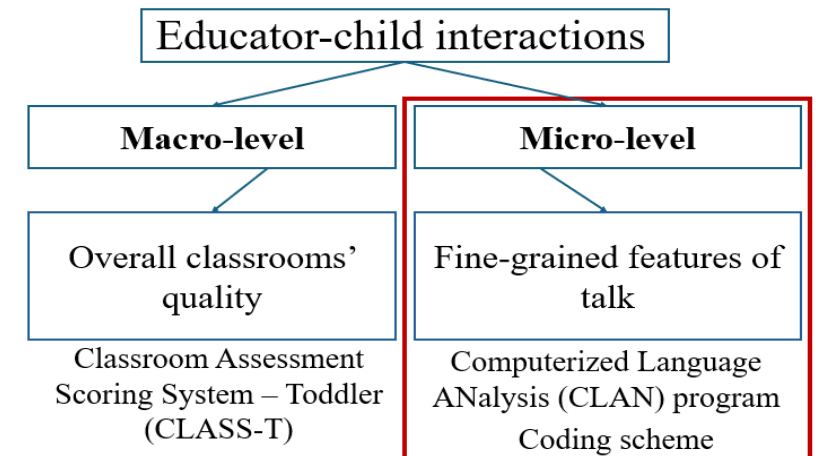


① ② ③ ④ ⑤ ⑥ ⑦
LOW MID HIGH

Research question and aims

To what extent do overall classrooms' quality (macro-level) and features of educator-child talk (micro-level) vary across activities ?

- Aim 2 : Examine fine-grained features (micro-level) of educator-child talk during Book Reading and Child-managed activities.



Method : fine-grained features of talk across activities

CLAN Transcription

8 videos of **Book Reading**
8 videos of **Child-managed**

15 to 20 min segments from
each activity



CLAN

Linguistic dimension

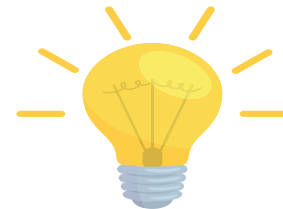
(MLU-w, lexical diversity VOCD)



CODING SCHEME

Interactive dimension

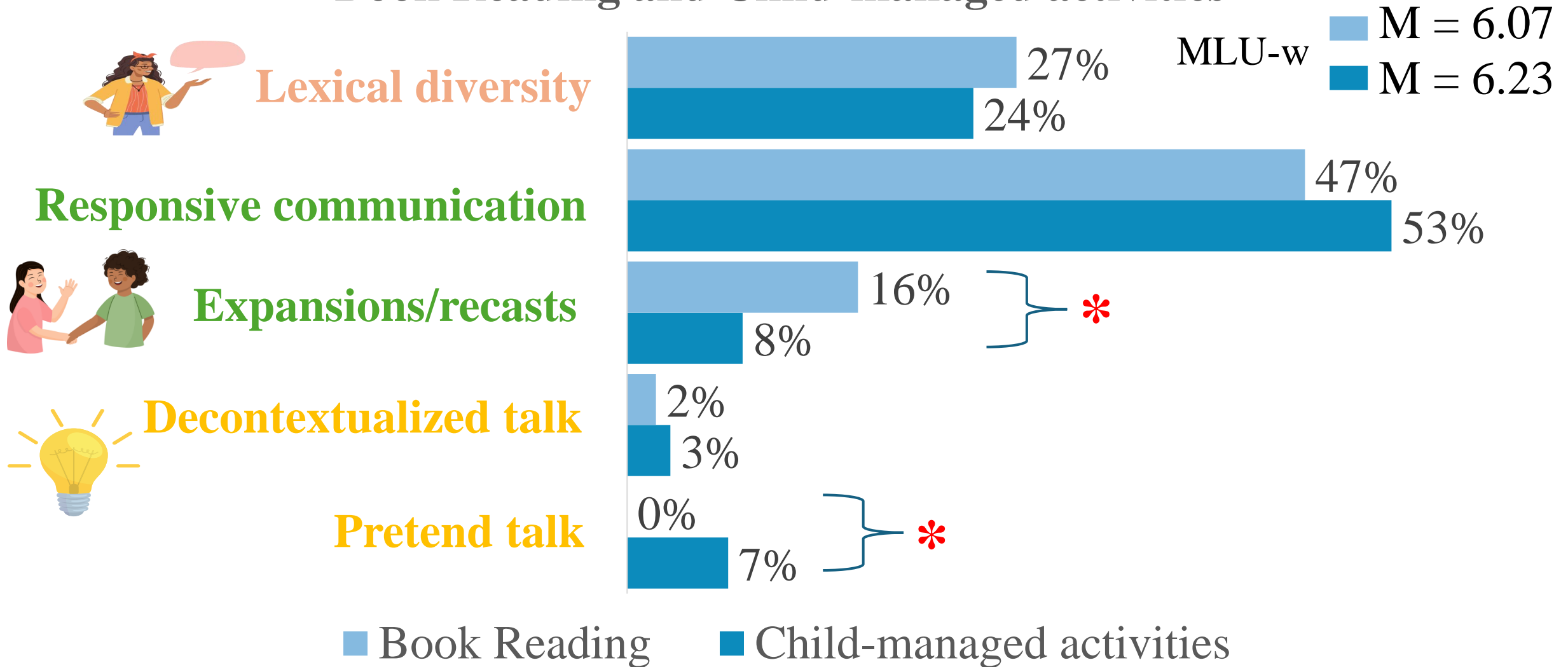
(responsive communication,
expansions/recasts)



Conceptual dimension

(decontextualized talk,
pretend talk)

Linguistic, Interactive and Conceptual categories across Book Reading and Child-managed activities



Lexical diversity

Responsive communication



Expansions/recasts



Decontextualized talk

Pretend talk

Summary /Discussion

- **Overall classrooms' quality**
 - **Emotional and Behavioral Support** : mid-level quality
 - **Engaged Support for Learning** : low to mid-level quality



Room for enhancing educators' practices

Summary /Discussion

■ Overall classrooms' quality across activities

- Overall, the average scores across the four activities are very similar.
- **Engaged Support for Learning** : Book Reading (highest average score) + Child-managed activities (lowest average score).



Training should take advantage of specific activities

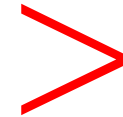
Targeting all activities

Summary /Discussion

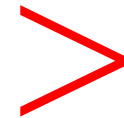
- **Fine-grained features of educators' talk across Book-Reading and Child-managed activities**
 - **Linguistic, interactive** and **conceptual** dimensions : similarities.



- **Linguistic dimension** : expansions-recasts



- **Conceptual dimension** : Pretend-talk



**Training should focus on activity-specific,
targeted strategies**

Thank you for your attention !

Thank you to my supervisors:

Caroline Masson

Christelle Maillart



rochana.mroue@sorbonne-nouvelle.fr