**Summary of Experimental Setup**

Version 1.0

June 10 2024

Main computer task (participant completes this for both MRI and MEG scan):

1. **\*\*Stimulus Types and Images:\*\***

- 4 types of stimulus images:

- God

- Humans

- Supernatural beings

- Inanimate objects

- 25 images for each type of stimulus

- Total images: 25 images/type×4 types=100 images

2**. \*\*Questions:\*\***

- 3 types of questions

Questions are:

|  |  |
| --- | --- |
| **Full question** | **Shortened Question slide** |
| "To what extent do you think the thing in the picture has (mind) thoughts/feelings/beliefs?” | Extent of MIND? |
| "To what extent do you think that the thing in the picture is a source of morality?” | extent of Morality? |
| "To what extent do you feel an emotional connection to the thing in the picture?” | extent of CONNECTION? |

- 25 questions linked to each type of stimulus

- Total questions: 25 questions/type×4 types=100 questions

For each question, participant is instructed to give an answer on a 1-4 rating scale where 1 is NONE and 4 is HIGH.

3**. \*\*Trials:\*\***

- Total trials: 300

- Distribution:

- 75 trials per stimulus type (God, humans, supernatural beings, inanimate objects)

- Each type of question is asked 25 times per stimulus category

- Each stimulus category (God, humans, supernatural beings, inanimate objects) has:

- 25 trials with Question 1

- 25 trials with Question 2

- 25 trials with Question 3

4. **\*\*Summary:\*\***

- 100 images are presented in random order, 25 from each of the 4 stimulus types.

- Each stimulus type (God, humans, supernatural beings, inanimate objects) has 75 trials, with each of the 3 questions asked 25 times per type.

- Total mixed questions across all categories: 25 questions/category \* 4 categories = 100 questions.

Naturalistic Task (MEG only)

- Participant watch 4 video clips, one from each category (God, Supernature, Humans, Inanimate Objects). The videos are shown in randomized order. No questions are asked during the naturalistic task.

Resting State (MEG Scan)

- Takes 5 minutes

- Participant instructed to look at a fixation cross slide for 5 minutes

**EVENT IDS:**

**Protocol for Trigger Numbers for MEG data**

Protocol for trigger numbering for MEG:

The trigger numbers are as follows:

- \*\*Response for button numbering from 1-4\*\*

Response button 1 press -1

Response button 2 press -2

Response button 3 press -3

Response button 4 press -4

- \*\*Question numbering\*\*

We have three types of questions: Leila assigned the numbers for the questions and the numbers for the question start "onset" and question end "offset" (for each question).

“Source of MORALITY?” - 4

”Extent of ATTACHMENT?” - 5

“Extent of MIND?” - 6

\*\*Trigger start and end of question\*\*

Start “onset” - 1

End “offset” - 2

Example:

Question 1 (morality) - onset - 41 \*( number of ‘41’, where ‘4’ - number of the question ‘morality’ see above, and ‘1’ - is the number of the trigger start)\*

Question 1 (morality) - offset - 42 \*( number of ‘42, where ‘4’ - number of the question ‘morality’ see above, and ‘2’ - is the number of the trigger end)\*

- \*\*Group numbering\*\*

“God” - 11

“Inan” - 12

“Human” - 13

“Super” - 14

\*\*Trigger start and end of group\*\*

Start “onset” - 1

End “offset” – 2

Example:

Group 1 “God” - onset - 111 \*( Ex., number of ‘111’, where ‘11’ - number of the group ‘\*God\*’ see above, and ‘1’ - is the number of the trigger start)\*

Group 1 “God” - offset - 112 \*( Ex., number of ‘111’, where ‘11’ - number of the group ‘\*God\*’ see above, and ‘2’ - is the number of the trigger end)\*

- \*\*Block numbering\*\*

“Block 1” - 15

“Block 2” - 16

“Block 3” - 17

\*\*Trigger start and end of Block\*\*

Start “onset” - 1

End “offset” - 2

- \*\*Resting numbering\*\*

Resting state - 18

\*\*Trigger start and end of resting\*\*

Start “onset” - 1

End “offset” - 2

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Protocol trigger numbering (movie)

- \*\*Movie numbering\*\*

Movie1 “God” - 20

Movie2 “Super” - 22

Movie3 “Inan” - 23

Movie4 “Human” - 24

\*\*Trigger start and end of movie\*\*

Start “onset” - 1

End “offset” - 2

- \*\*Resting numbering\*\*

Resting state - 25

\*\*Trigger start and end of resting\*\*

Start “onset” - 1

End “offset” - 2