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| --- | --- | --- | --- | --- |
|  | ***Model*** | ***Two-way Interactions Tested*** | ***Model Convergence*** | ***Significant Interaction*** |
| *Latency Model 1* | Color X Frequency | Yes | No |
| *Latency Model 2* | Color X Trial Order, Frequency X Trial Order | Yes | No |
| *Latency Model 3* | Color X PCA Light Intensity, Frequency X PCA Light Intensity | Yes | No |
| *Latency Model 4* | No Interactions | Yes | Base Model |
|  |  |  |  |  |
| *Head Movement Rate Model 1* | Color X Frequency | Yes | No |
| *Head Movement Rate Model 3* | Color X Trial Order, Frequency X Trial Order | Yes | No |
| *Head Movement Rate Model 3* | Color X PCA Light Intensity, Frequency X PCA Light Intensity | Yes | No |
| *Head Movement Rate Model 4* | No interactions | Yes | Base Model |
|  |  |  |  |  |
| *Body Movement Rate Model 1* | Color X Frequency | Yes | No |
| *Body Movement Rate Model 2* | Color X Trial Order, Frequency X Trial Order | Yes | No |
| *Body Movement Rate Model 3* | Intensity, Frequency X PCA Light Intensity | Yes | No |
| *Body Movement Rate Model 4* | No Interactions | Yes | Base Model |
|  |  |  |  |  |
| *Probability of Avoidance Model 1* | Color X Frequency | Yes | No |
| *Probability of Avoidance Model 2* | Color X Trial Order, Frequency X Trial Order | Yes | Color X Trial Order |
| *Probability of Avoidance Model 3* | Color X Trial Order, Color X PCA Light Intensity, Frequency X PCA Light Intensity | Yes | Light Pulsing Frequency X PCA Light Intensity |
|  |  |  |  |  |
| *Probability of Avoidance Model 4* | Color X Trial Order, Light Pulsing Frequency X PCA Light Intensity | Yes | Color X Trial order, Light Pulsing Frequency X PCA Light Intensity |
|  |  |  |  |  |