

All examples in this test should be successfully parsed by LaTeXML's grammar, and are meant as regression tests.

1 sanity check

1. $1 + 1 = 2$

2 Factor

2.0.1 Empty Balanced

1. $()$
2. $[]$
3. $\{\}$
4. $\langle \rangle$
5. $\llbracket \rrbracket$
6. \sqcup

2.0.2 Single Factor production and Monomials

1. $\times x$
2. $|x$
3. \sin
4. \arcsin
5. \neg
6. $\frac{1}{2}x$
7. $_a$
8. 12^3
9. \int
10. $\int x$
11. $\int x \, dx$
12. \sum
13. $\sum x$
14. $\{x \mid x > 0\}$

15. $||x||$
16. $|a|$
17. $\langle\phi|$
18. $|\psi\rangle$
19. $\langle\phi|\psi\rangle$
20. xyz
21. $\sqrt{x}\sqrt{y}$
22. $()\{\}\{()\}$
23. $2|ab|$
24. $||x||a||y||$

2.0.3 Arrays

1. standalone cases

$$\begin{Bmatrix} cca & b \\ c & d \end{Bmatrix}$$

2. standalone array

$$\begin{array}{cc} a & b \\ c & d \end{array}$$

3. lbrace array

$$\left\{ \begin{array}{cc} a & b \\ c & d \end{array} \right.$$

4. rbrace array

$$\begin{array}{cc} a & b \\ c & d \end{array} \right\}$$

3 Advanced Scripted

1. Na^+
2. ψ''
3. $\int_0^\infty x^2 dx$
4. $\int_\infty^{(0+)} t \, dt$
5. $\int_\infty^{(1+,0+,1,0)} t \, dt$
6. $\sum_{i=0}^{50} x^i$

4 Advanced Fenced

1. $\langle a, b \rangle$
2. $\langle ab \rangle$
3. $\langle a \rangle$

5 Polynomial and multi-relations

1. $ab + cd - ef + gh$
2. $|A\rangle = |B\rangle + |C\rangle$
3. $1 \leq l < j \leq n$
4. $1 < x < 10, 2 < y < 20, 3 < z < 30$
5. $a, b \propto \alpha + \frac{1}{\alpha}$

6 Modifier Expressions

1. > 0
2. (> 0)
3. $x(> 0)$
4. $h(\in C)$
5. $x : \text{Integer}$
6. $f : \text{Integer} \Rightarrow \text{Real}$

7 Edge/Artefact Cases

- 1.