



Figure 1 illustrates the distribution of the number of nodes in the tree T_{n-1} for different values of n . The diagram shows four horizontal lines, each representing a different value of n . The nodes are represented by small circles, and the lines are labeled with the number of nodes. The lines are labeled as follows:

- Line 1: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Line 2: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Line 3: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Line 4: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.



Figure 1: Schematic diagram of the experimental setup for the study of the effect of the number of layers on the mechanical properties of the composite. The diagram shows a cross-section of a multi-layered composite structure with layers labeled from 1 to 5. The layers are separated by interfaces. The thickness of each layer is indicated by a dimension line and a value: Layer 1 is 1.25, Layer 2 is 1.87, Layer 3 is 1.87, Layer 4 is 1.87, and Layer 5 is 1.87. The total thickness of the composite is 10.0. The layers are made of a material with a modulus of elasticity E and a thickness t . The interfaces are labeled with numbers 1 to 4. The diagram also shows the direction of the applied load (F) and the resulting displacement (δ).



Figure 1: Schematic representation of the experimental design. The figure shows four horizontal timelines for Phase 1, Phase 2, Phase 3, and Debut 0. Each timeline has a duration of 1.25, 1.87, 1.87, and 2.00 respectively. The timelines are marked with vertical lines and horizontal segments, indicating the sequence of events and the duration of each phase.



Event 1	$\mu = \frac{30^\circ}{2}$	2.90	$\mu = \frac{180^\circ}{2}$	1.97	$\mu = \frac{312^\circ}{2}$	2.20	$\mu = \frac{180^\circ}{2}$	1.97	$\mu = \frac{30^\circ}{2}$
Event 2	$\mu = \frac{30^\circ}{2}$	5.25	$\mu = \frac{312^\circ}{2}$	5.25	$\mu = \frac{180^\circ}{2}$	5.25	$\mu = \frac{180^\circ}{2}$	5.25	$\mu = \frac{30^\circ}{2}$
Event 3	$\mu = \frac{514}{2}$	1.97	$\mu = \frac{180^\circ}{2}$	1.97	$\mu = \frac{312^\circ}{2}$	2.20	$\mu = \frac{180^\circ}{2}$	1.97	$\mu = \frac{30^\circ}{2}$
Event 0	$\mu = \frac{30^\circ}{2}$	1.97	2.90	1.97	1.25	1.25	1.97	1.25	1.97

[illegible]