

The figure consists of three plots related to a GBDT model's feature importance and Shapley values.

**Importance of the Features (GBDT)**: A horizontal bar chart showing the importance of various features. The x-axis represents importance in percentage, ranging from 0 to 50. The y-axis lists features: weight, type, level\_2, level\_3, level\_4, level\_5, level\_6, level\_7, level\_8, level\_9, level\_10, level\_11, level\_12, level\_13, level\_14, level\_15, level\_16, level\_17, and level\_18. The most important features are level\_6 (approx. 50%) and weight (approx. 20%).

**Average Shapley Values (GBDT, test set)**: A horizontal bar chart showing the average Shapley values for various features. The x-axis represents the average Shapley value, ranging from -0.03 to 0.01. The y-axis lists features: level\_2, level\_3, weight, level\_12, level\_8, type, level\_9, level\_5, level\_17, level\_14, level\_10, level\_11, level\_13, level\_15, level\_4, level\_16, level\_7, level\_18, and level\_6. The most negative average Shapley values are for level\_6 (approx. -0.03) and level\_18 (approx. -0.02).

**Shapley Interaction Values (GBDT, test set --> ID = 4)**: A heatmap showing the Shapley interaction values for a specific instance (ID = 4). The x and y axes list features: weight, type, level\_2, level\_3, level\_4, level\_5, level\_6, level\_7, level\_8, level\_9, level\_10, level\_11, level\_12, level\_13, level\_14, level\_15, level\_16, level\_17, and level\_18. The color scale ranges from -0.4 (dark blue) to 0.0 (dark red). The most significant interaction is between level\_2 and level\_3 (approx. -0.4).

