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The bubble and anti-bubble risk resistance analysis on the metal futures in China

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#### **ACCEPTED MANUSCRIPT**

## **Highlights:**

- (1) The LPPLS model is introduced to analyze the financial bubble and anti-bubble.
- (2) The risk resistance ability is quantitatively measured by two derived parameters.
- (3) We further model the risk resistance ability before and after the financial crises.
- (4) Two metal futures in China's futures market are selected to empirically investigate.
- (5) The bubble and anti-bubble risk resistance result on the metal futures is concluded.

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