# **Prime Trading**

Project Lab - The University of Chicago May 2nd meeting

**Futures Basis Model** 

#### **Presented by**

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#### 1. Theoretical value for basis

- Visualization for different basis
- Market Implied Pricing

#### 2. Milestone

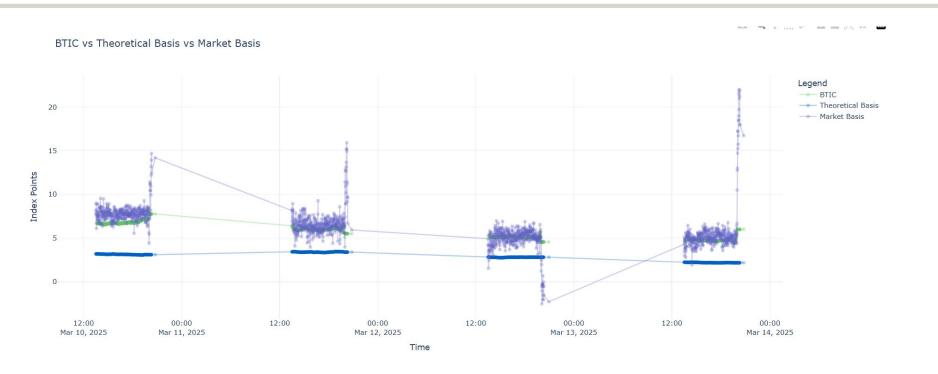




### 1. Theoretical value for basis

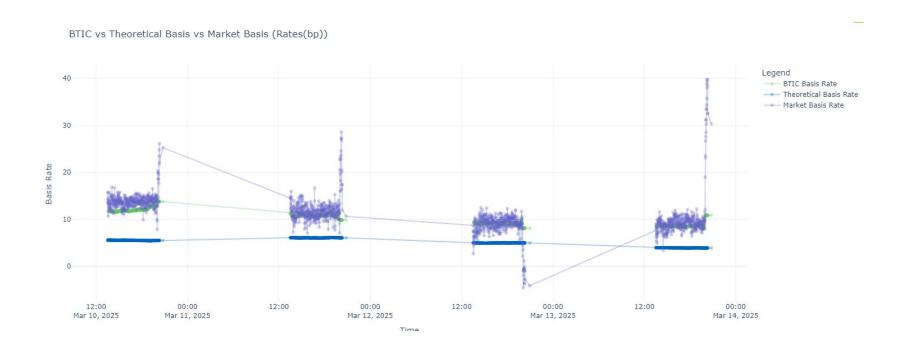


#### Visualisation of different basis





#### Visualisation of different basis





### **Implication**

- Potential reasons for spike of market basis
- Information bias
- Leveraged funds
- Potential Trading Strategy
- Buy BTIC contract and short market basis(sell ES buy spot) etc.
- We need longer timeframe to test the hypothesis



### Market Implied Pricing

- As mentioned last week, we want to try the pricing without adding the filtering from last week
- Below is direct plot of trade data vs mid price from nbbo of ES
- The trade data shows much less noise

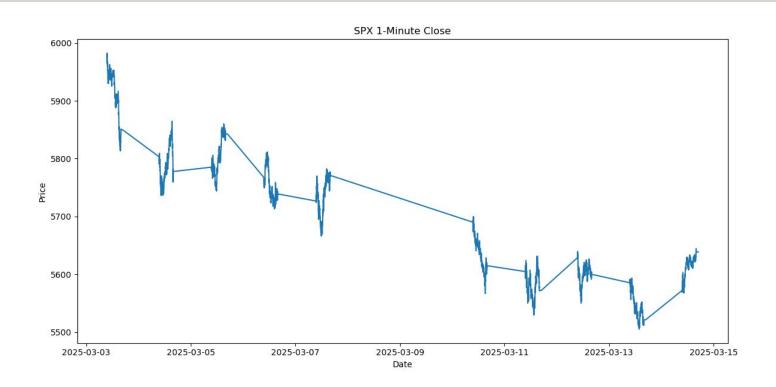


Trade data plot



Mid price from quote data plot

### SPX 1-minute data (Source: FirstRate Data)







### 2. Milestone



#### Data

- Data we currently have
- SPX DIV Trade/Quote 03/03 03/14
- SPX DIV Index 2020/1/2 2025/4/25
- Term SOFR 2020/1/2 2025/4/25
- BTIC Trade 03/10-03/21
- ES Trade/Quote 03/03-03/14
- SPX 1min 03/03 03/14

#### -> Currently Analysed 03/10-03/14 (UTC)

We need further more data to test our hypothesis



## Thank you!

