

# Market Structure Report

04-12-2024

# Lega

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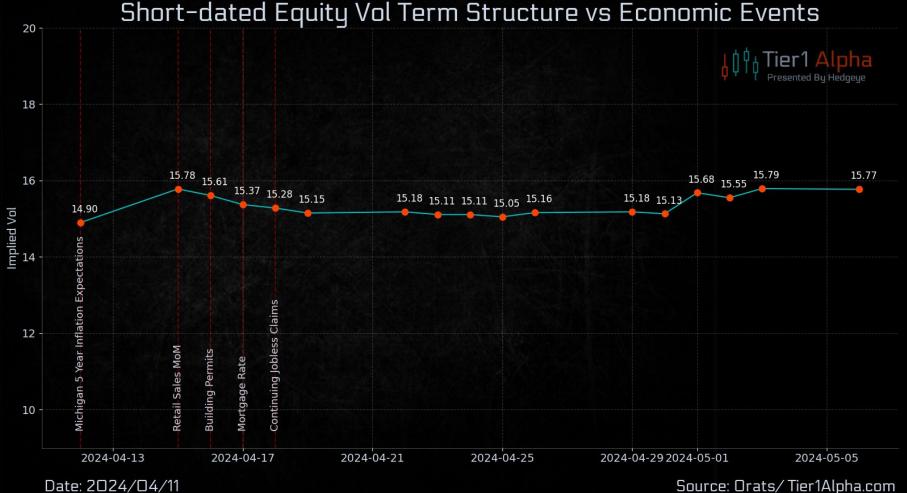
## Summary:

Tier1 Alpha
Market Research Tools

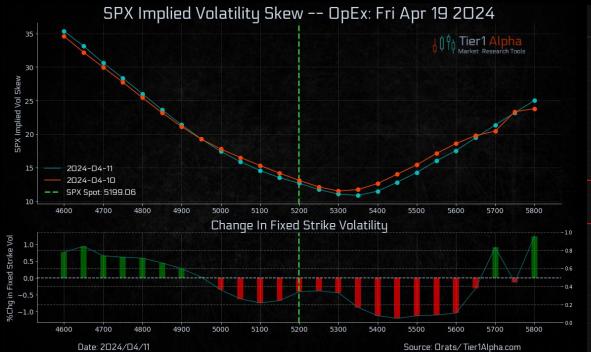
- Dealers have pulled back into more favorable positioning, just shy of our gamma flipping point.
- As we've previously highlighted, the 5200 strike is likely the more
  critical level than the GEX flip at 5217, just based on the amount of
  open interest tied to that strike. In fact, on our total gamma by strike
  model, the 5200 strike actually shows quite a bit of positive gamma,
  which reinforces that this is the level to watch.
- That said, this positioning still presents a highly dynamic and patch-dependent setup.
- If SPX pushes higher, then we should see realized volatility start to compress, as dealers will be forced to sell into strength and buy into weakness in order to eliminate their directional exposure.
- On the other hand, a move lower will likely lead to some volatility expansion, as dealers will be forced to hedge their short gamma exposure by shorting futures into the decline.

- So far, this week has played out broadly as expected, as the 5150 strike acted as support on Wednesday, followed by a move back up to the 5200 strike.
- There has been a notable expansion in our probable volatility bands since last week, which now makes up just over a 100-point spread for SPX. Given SPX is right in the middle of our ranges, we don't have a strong directional bias either way, although we do expect the broader consolidation range to hold.
- Despite SPY gaining 0.75% yesterday, breadth was slightly negative at the close.
- This divergence was driven by one of the strongest examples of market cap distortion we've seen (second overall), where just ten companies were responsible for over 57% of the gains.
- Out of that, Apple, Nvidia, and Microsoft accounted for just under 30% of the bullish momentum, leaving the broader index in the dust.

| Volatility Regime:   | Low     | Neutral | High    |  |
|----------------------|---------|---------|---------|--|
| Flow Risk:           | Bullish | Neutral | Bearish |  |
| PV Band Risk/Reward: | Long    | Neutral | Short   |  |

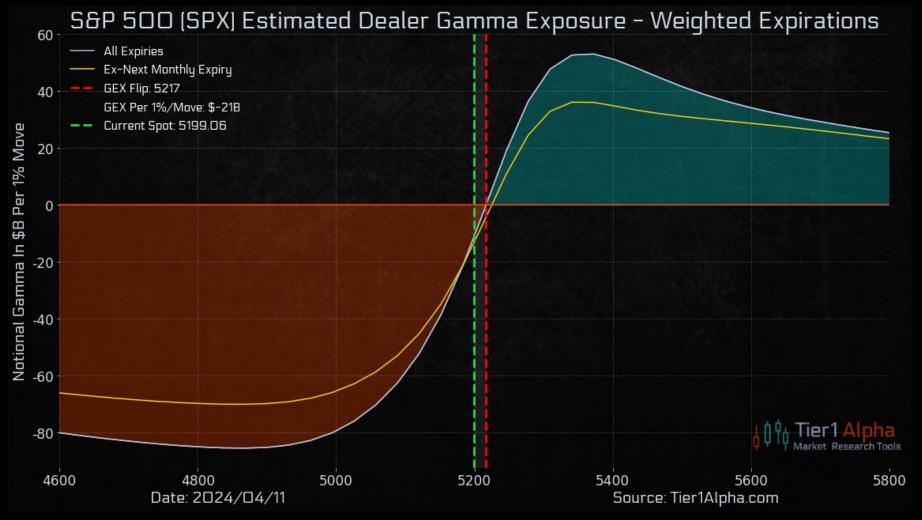


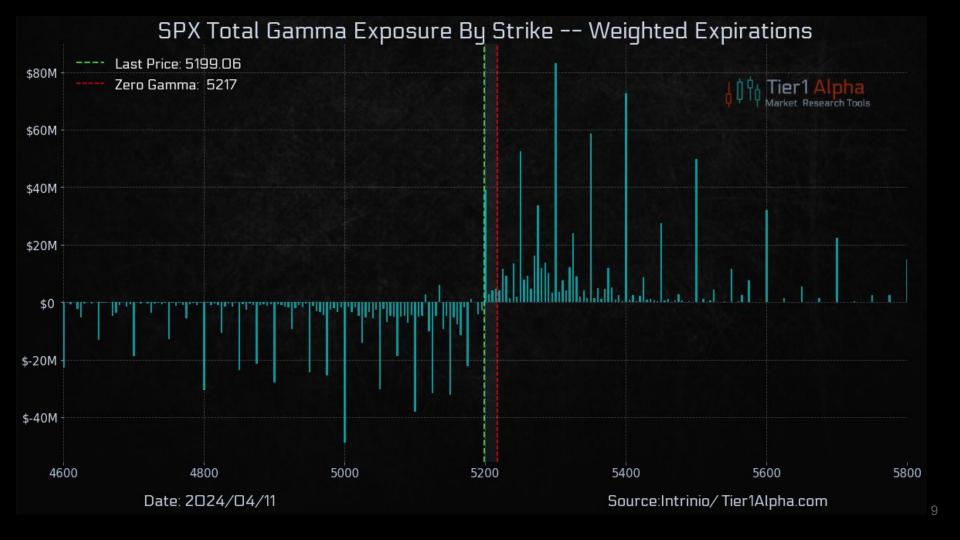
#### Economic Event Calendar With Short-Dated Options Positioning Call IV Put IV SPX IV Expected Move Date Event Estimate Previous Impact P/C Vol P/C DI 2024-04-12 **Michigan 5 Year Inflation Expectations** 2.8 low 15.19 14.96 15.08 +/- 0.78% 1.03 2.56 79.0 79.4 14.96 +/- 0.78% 2.56 2024-04-12 **Consumer Confidence** 15.19 15.08 1.03 2024-04-15 **Retail Sales MoM** 0.3 0.6 16.45 15.78 16.12 +/- 1.19% 1.65 3.03 2024-04-16 **Building Permits** 1.524 16.28 15.27 +/- 1.43% 2.85 15.77 1.69 2024-04-17 **Mortgage Rate** 7.01 low 16.15 14.91 15.53 +/- 1.62% 1.47 2.55 2024-04-17 **Mortgage Applications** 0.1 low 16.15 14.91 15.53 +/- 1.62% 2.55 1.47 2024-04-17 **MBA Mortgage Refinance Index** 498.3 low 16.15 14.91 15.53 +/- 1.62% 1.47 2.55 2024-04-17 **MBA Purchase Index** 138.7 low 16.15 14.91 15.53 +/- 1.62% 1.47 2.55 2024-04-18 **Continuing Jobless Claims** low 16.45 14.45 15.45 +/- 1.8% 1.02 2.92 2024-04-18 **Initial Jobless Claims** 16.45 14.45 15.45 +/- 1.8% 1.02 2.92 2024-04-18 **Philly Fed Employment** -9.6 low 16.45 14.45 15.45 +/- 1.8% 1.02 2.92 2024-04-18 **Philly Fed New Orders** 5.4 low 16.45 14.45 15.45 +/- 1.8% 1.02 2.92

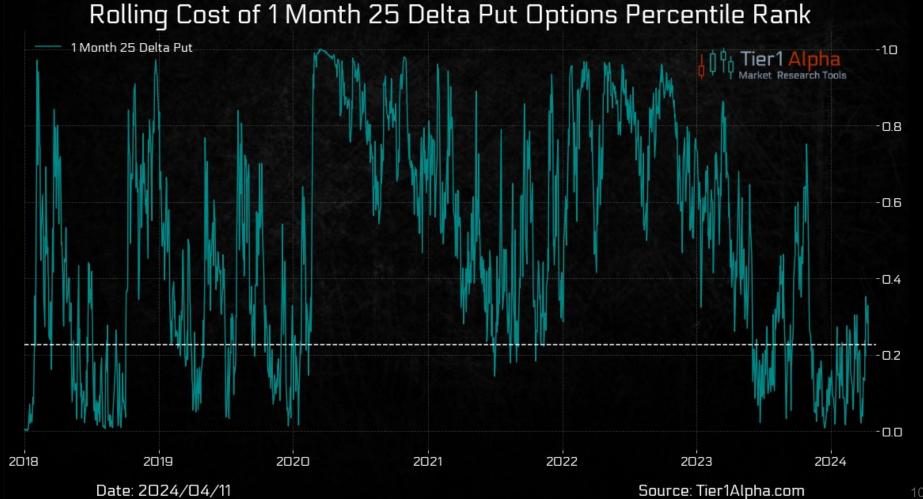


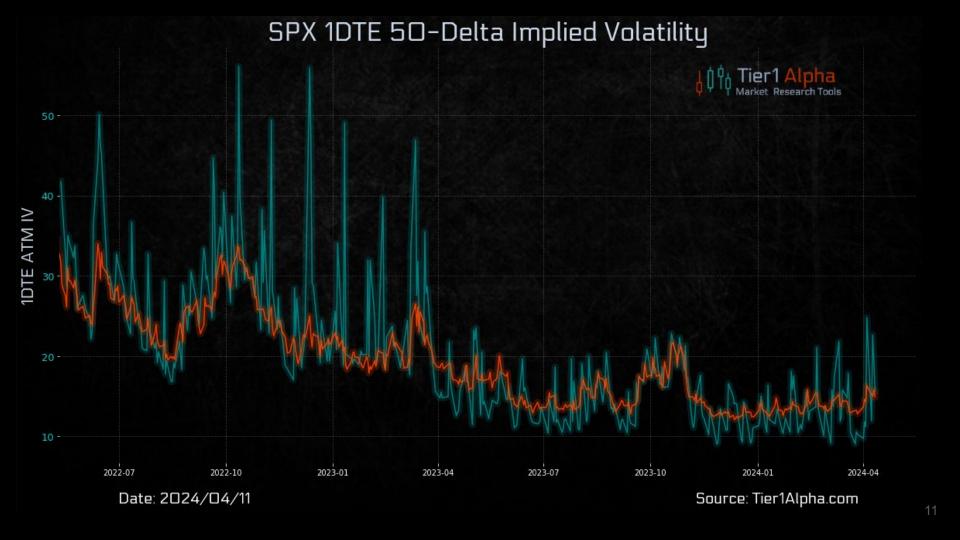
| SPX Implied Volatility with Fixed Strike Vol |                 |            |                 |            |                 |            |
|--|-----------------|------------|-----------------|------------|-----------------|------------|
|  | Fri Apr 19 2024 |            | Fri May 17 2024 |            | Fri Jun 21 2024 |            |
| Strike                                       | Implied Vol     | FSV Change | Implied Vol     | FSV Change | Implied Vol     | FSV Change |
| 4700.0                                       |                 | 0.65       | 19.8            |            | 19.46           |            |
| 4750.0                                       | 28.35           | 0.61       | 18.94           |            | 18.79           |            |
| 4800.0                                       |                 | 0.58       | 18.07           |            | 18.13           |            |
| 4850.0                                       | 23.63           | 0.44       | 17.22           |            |                 |            |
| 4900.0                                       |                 | 0.27       | 16.47           |            | 16.82           |            |
| 4950.0                                       | 19.28           |            |                 |            | 16.19           |            |
| 5000.0                                       |                 |            | 14.98           | -0.38      |                 |            |
| 5050.0                                       | 15.88           |            | 14.3            |            | 14.99           |            |
| 5100.0                                       | 14.58           | -0.75      | 13.64           | -0.34      | 14.43           | -0.25      |
| 5150.0                                       |                 |            | 13.08           | -0.24      |                 |            |
| 5200.0                                       | 12.68           |            | 12.52           |            | 13.43           |            |
| 5250.0                                       | 11.74           |            | 12.0            | -0.2       | 12.97           | -0.16      |
| 5300.0                                       | 11.06           |            | 11.59           |            |                 |            |
| 5350.0                                       | 10.86           |            | 11.24           | -0.18      |                 |            |
| 5400.0                                       |                 |            | 11.0            | -0.22      | 11.85           |            |
| 5450.0                                       | 12.82           |            | 10.89           | -0.26      |                 |            |
| 5500.0                                       | 14.29           |            |                 | -0.28      |                 |            |
| 5550.0                                       |                 |            | 11.06           |            |                 |            |
| 5600.0                                       |                 |            | 11.34           |            |                 |            |
| 5650.0                                       | 19.46           |            | 11.83           | -0.28      |                 |            |
| 5700.0                                       |                 |            | 12.23           |            |                 |            |

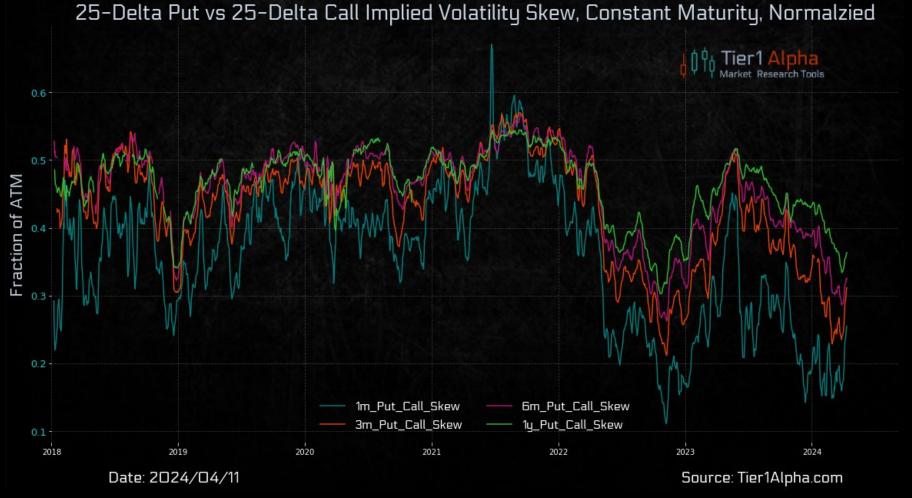


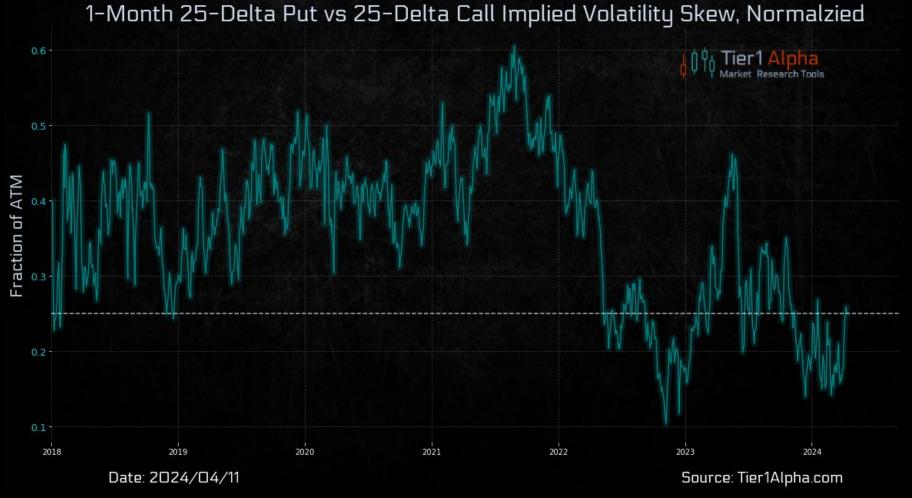












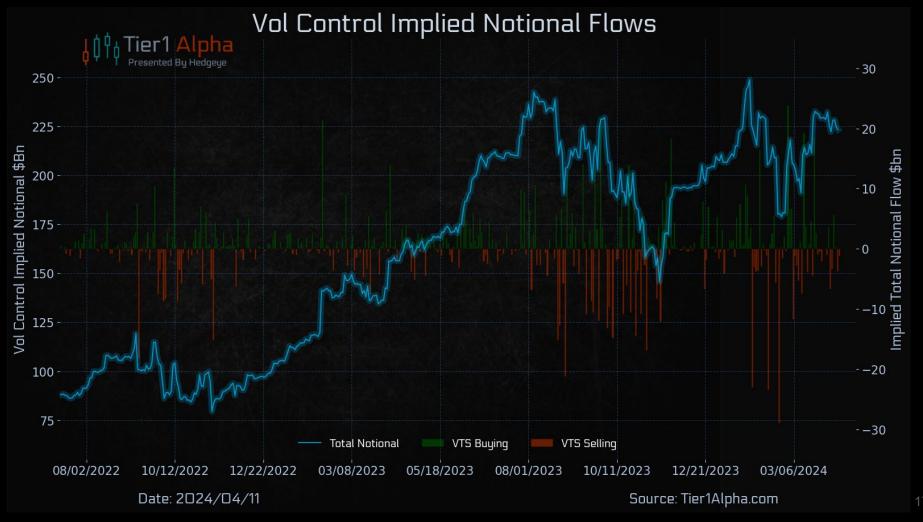


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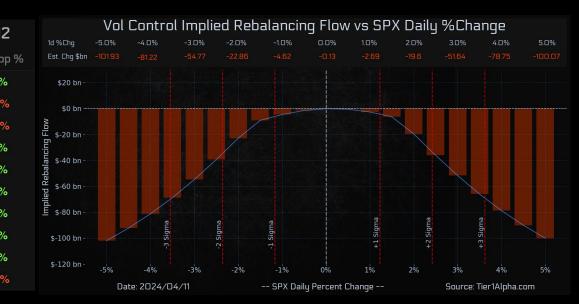
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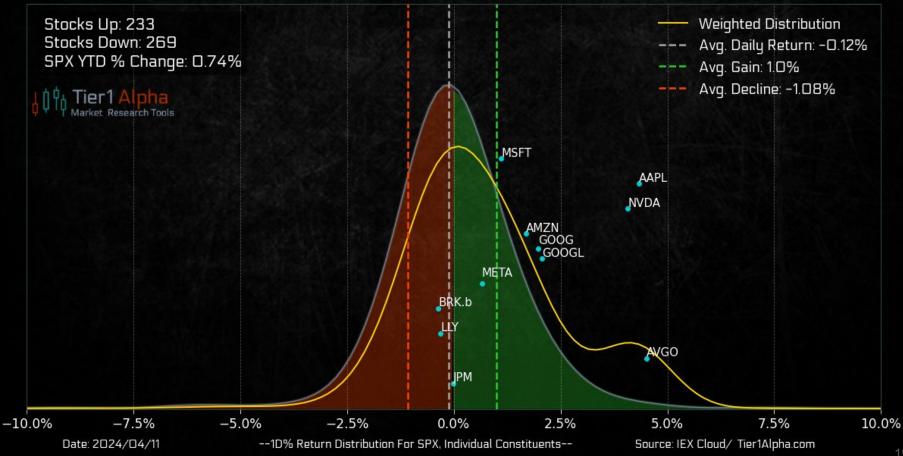


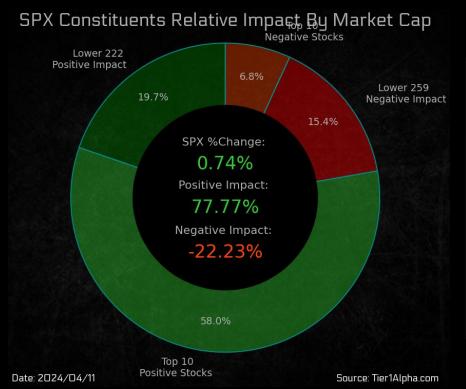


| SPX Realized Vol Data In Sample for 2024-04-12 |            |           |            |           |  |
|--|------------|-----------|------------|-----------|--|
| Dropoff  | 1m Dates   | 1m Drop % | 3m Dates   | 3m Drop % |  |
| T+1  | 2024-03-14 | -0.3%     | 2024-01-12 | 0.1%      |  |
| T+2  | 2024-03-15 | -0.6%     | 2024-01-16 | -0.4%     |  |
| T+3  | 2024-03-18 | 0.6%      | 2024-01-17 | -0.6%     |  |
| T+4  | 2024-03-19 | 0.6%      | 2024-01-18 | 0.9%      |  |
| T+5  | 2024-03-20 | 0.9%      | 2024-01-19 | 1.2%      |  |
| T+6  | 2024-03-21 | 0.3%      | 2024-01-22 | 0.2%      |  |
| T+7  | 2024-03-22 | -0.1%     | 2024-01-23 | 0.3%      |  |
| T+8  | 2024-03-25 | -0.3%     | 2024-01-24 | 0.1%      |  |
| T+9  | 2024-03-26 | -0.3%     | 2024-01-25 | 0.5%      |  |
| T+10   | 2024-03-27 | 0.9%      | 2024-01-26 | -0.1%     |  |



#### S&P 500 MBAD Indicator for 2024/04/11





| SPX Constituents Relative Impact By Market Cap |                  |                    |                         |                  |                    |                    |            |
|--|------------------|--------------------|-------------------------|------------------|--------------------|--------------------|------------|
| Largest Positive Impact                        |                  |                    | Largest Negative Impact |                  |                    |                    |            |
| Top<br>Contributor                             | Daily<br>%Return | Positive<br>Impact | % Weight                | Top<br>Detractor | Daily<br>%Return.1 | Negative<br>Impact | % Weight.1 |
| AAPL   | 4.3%             | 18.1%              | 5.61%                   | UNH              | -1.9%              | -1.4%              | 1.03%      |
| NVDA   | 4.1%             | 15.5%              | 5.07%                   | MS               | -5.2%              | -1.1%              | 0.27%      |
| MSFT   | 1.1%             | 5.9%               | 7.17%                   | GL               | -53.1%             | -0.8%              | 0.02%      |
| AMZN   | 1.7%             | 4.7%               | 3.76%                   | JNJ              | -0.9%              | -0.6%              | 0.86%      |
| AVGO   | 4.5%             | 4.6%               | 1.35%                   | PG               | -0.9%              | -0.6%              | 0.86%      |
| GOOGL  | 2.1%             | 3.2%               | 2.08%                   | HD               | -0.9%              | -0.6%              | 0.83%      |
| GOOG   | 2.0%             | 2.6%               | 1.75%                   | FAST             | -6.5%              | -0.5%              | 0.1%       |
| TSLA   | 1.7%             | 1.4%               | 1.1%                    | ABBV             | -0.9%              | -0.5%              | 0.72%      |
| META   | 0.6%             | 1.2%               | 2.46%                   | BRK.B            | -0.4%              | -0.5%              | 1.74%      |
| MU   | 4.3%             | 1.0%               | 0.31%                   | ВМҮ              | -2.3%              | -0.4%              | 0.24%      |



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