## Tables for Bubbles and the Value of Innovation

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Table 1: Market Value of Innovation in Bubbles

|                                    | Patent Level        |                         |                          | Firm Level          |                     |                     |
|------------------------------------|---------------------|-------------------------|--------------------------|---------------------|---------------------|---------------------|
|                                    | (1)                 | (2)                     | (3)                      | (4)                 | (5)                 | (6)                 |
| Bubble Dummy                       | 0.317***<br>(0.094) | 0.315***<br>(0.094)     | 0.186<br>(0.132)         | 0.514***<br>(0.114) | 0.427***<br>(0.123) | 0.265**<br>(0.134)  |
| Log Citations<br>(forward looking) |                     | 0.016***<br>(0.004)     | $0.014^{***} $ $(0.005)$ |                     | 0.823***<br>(0.011) | 0.821***<br>(0.011) |
| Log Citations x bubble             |                     |                         | 0.054**<br>(0.025)       |                     |                     | 0.061***<br>(0.012) |
| Fixed Effects                      | Y, F                | Y, F                    | Y, F                     | Y, F                | Y, F                | Y, F                |
| Observations $\mathbb{R}^2$        | $1,171,806 \\ 0.68$ | $1,\!171,\!806 \\ 0.68$ | $1,\!171,\!806 \\ 0.68$  | 47,886 $0.89$       | 47,886 $0.94$       | 47,886 $0.94$       |

Table 2: Firm Profits at Different Horizons Following Bubbles

|                               |                     |                     | Horizon (years)     |                     |                     |  |  |
|-------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|--|
|                               | (1)                 | (2)                 | (3)                 | (4)                 | (5)                 |  |  |
|                               |                     | Future Profits      |                     |                     |                     |  |  |
| Citations                     | 0.014***<br>(0.003) | 0.021***<br>(0.004) | 0.027***<br>(0.005) | 0.033***<br>(0.006) | 0.042***<br>(0.007) |  |  |
| Bubble dummy                  | 0.032 $(0.025)$     | -0.002 $(0.035)$    | -0.023 (0.035)      | -0.034 (0.042)      | -0.037 $(0.042)$    |  |  |
| Citations x bubble            | 0.001 $(0.012)$     | -0.002 (0.011)      | 0.009<br>(0.014)    | 0.008<br>(0.018)    | -0.022 $(0.020)$    |  |  |
| Fixed Effects: year, industry | Y                   | Y                   | Y                   | Y                   | Y                   |  |  |
| Observations                  | 121,017             | 109,523             | 99,248              | 90,123              | 81,895              |  |  |
| $R^2$                         | 0.09                | 0.10                | 0.11                | 0.12                | 0.13                |  |  |

Table 3: Competitive Spillovers in Times of Bubbles

|                             | N                        | Market-based Spillovers |                          |                          | Outcome Spillovers    |                     |  |
|-----------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-----------------------|---------------------|--|
|                             | Jaffe (1)                | Mahalanobis (2)         | IV Jaffe (3)             | Jaffe (4)                | Mahalanobis (5)       | IV Jaffe<br>(6)     |  |
| Bubble x Spill-SIC          | 0.152***<br>(0.027)      | 0.200***<br>(0.037)     | 0.178***<br>(0.038)      | 0.004<br>(0.009)         | -0.000 (0.013)        | 0.007***<br>(0.002) |  |
| Spill-SIC                   | $-0.088^{***}$ $(0.016)$ | $-0.103^{***}$ (0.033)  | $-0.314^{***}$ $(0.104)$ | $-0.021^{***}$ $(0.006)$ | $-0.021^{**}$ (0.010) | -0.044 $(0.046)$    |  |
| Spill-Tech                  | $0.405^{***}$ $(0.145)$  | 0.844***<br>(0.174)     | 1.214***<br>(0.171)      | $0.175^{***}$ $(0.025)$  | 0.159***<br>(0.040)   | 0.188**<br>(0.074)  |  |
| Fixed Effects               | Y, F                     | Y, F                    | Y, F                     | Y, F                     | Y, F                  | Y, F                |  |
| Observations $\mathbb{R}^2$ | $8,896 \\ 0.74$          | 8,946<br>0.74           | $8,896 \\ 0.74$          | $8,775 \\ 0.99$          | 8,825<br>0.99         | $8,775 \\ 0.99$     |  |

Table 4: Ownership and Bubbles

|                             | Panel A: Fraction of stock holdings in industry              |  |                              |                                |  |  |
|-----------------------------|--|--|------------------------------|--------------------------------|--|--|
|                             | (1)  | (2)  | (3)                          | (4)                            |  |  |
| Bubble                      | 2.664***<br>(0.263)  | 1.763***<br>(0.178)  | 2.374***<br>(0.344)          | 1.443***<br>(0.204)            |  |  |
| Controls<br>Fixed Effects   | Yes<br>No  | Yes<br>Industry  | Yes<br>Date                  | Yes<br>Industry, Date          |  |  |
| Observations $\mathbb{R}^2$ | $1,449,114 \\ 0.48$  | 0.56   | 1,449,114 $0.49$             | 0.56                           |  |  |
|                             | Panel B: Fraction of stock holdings by institution type      |  |                              |                                |  |  |
|                             | (1)  | (2)  | (3)                          | (4)                            |  |  |
| Bubble x Banks              | 1.872***   | 1.182***   | 1.988***                     | 0.973***                       |  |  |
| Bubble x Insurance          | (0.382)<br>2.475***  | (0.286)<br>1.868***  | $(0.472)$ $2.437^{***}$      | $(0.327)$ $1.622^{***}$        |  |  |
| Bubble x Inv. Advisers      | (0.483) $5.108***$ $(0.449)$                                 | (0.393)<br>3.948***<br>(0.480)                             | (0.611) $4.366***$ $(0.346)$ | (0.460)<br>3.428***<br>(0.418) |  |  |
| Bubble x Mutual Funds       | $(0.449)$ $1.071^{**}$ $(0.464)$                             | 0.289 $(0.319)$  | 0.803 $(0.568)$              | (0.418) $-0.048$ $(0.378)$     |  |  |
| Bubble x Pension Funds      | $ \begin{array}{c} (0.404) \\ 1.007 \\ (0.856) \end{array} $ | 0.267 $(0.763)$  | 0.711 $(0.972)$              | -0.053 $(0.834)$               |  |  |
| Controls<br>Fixed Effects   | Yes<br>No  | $\begin{array}{c} {\rm Yes} \\ {\rm Industry} \end{array}$ | Yes<br>Date                  | Yes<br>Industry, Date          |  |  |
| Observations $\mathbb{R}^2$ | 1,449,114 $0.49$   | $\substack{1,449,114\\0.56}$                               | 1,449,114 $0.49$             | 0.56                           |  |  |