Exponentialfunktion

```
e^{t\cdot 2\pi i} = cos(t\cdot 2\pi) + i\cdot sin(t\cdot 2\pi)
```

In [3]:

```
t = np.linspace(0, 1, 50)
e_ = np.exp(t * 2 * np.pi * 1j)

plt.figure(figsize=(5 * 2, 5 * 2))
pl = plt.subplot(2, 2, 1)
p2 = plt.subplot(2, 2, 2)
p3 = plt.subplot(2, 2, 3)
cm = plt.get_cmap('viridis')

for ex, tx, color in zip(e_, t, cm(t)):
    p1.plot(ex.real, ex.imag, 'o', color=color)
    p2.plot(tx, ex.imag, 'o', color=color)
    p3.plot(ex.real, -tx, 'o', color=color)

plt.tight_layout()
plt.show()
```

