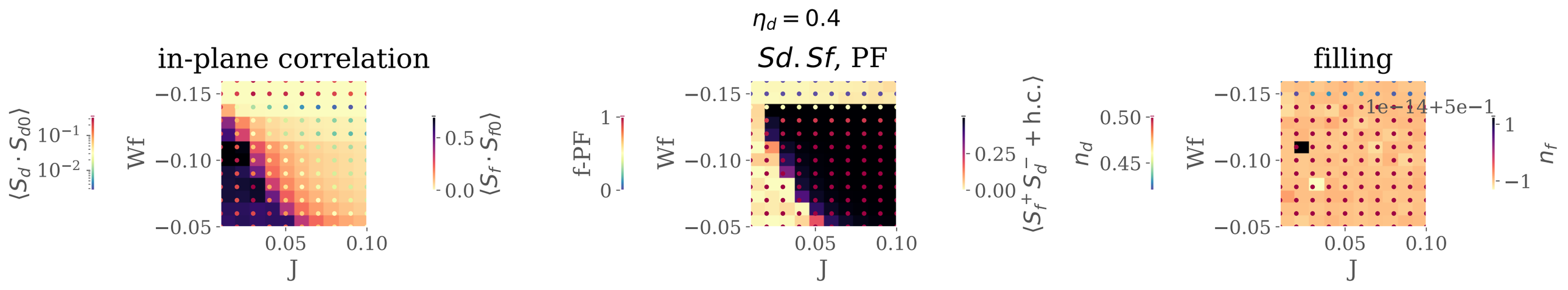
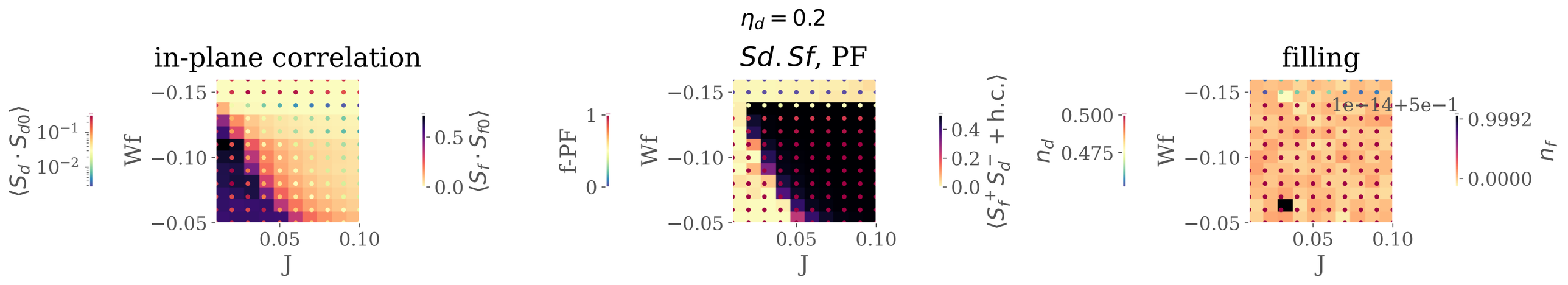
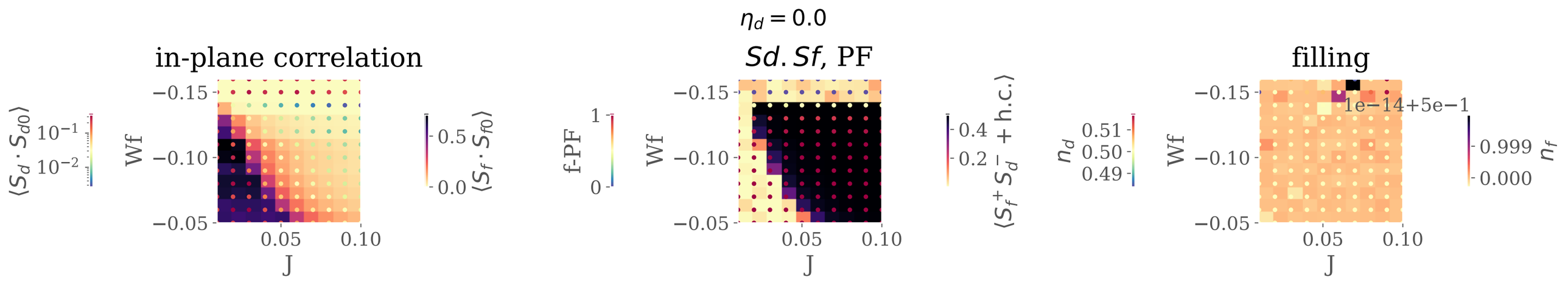
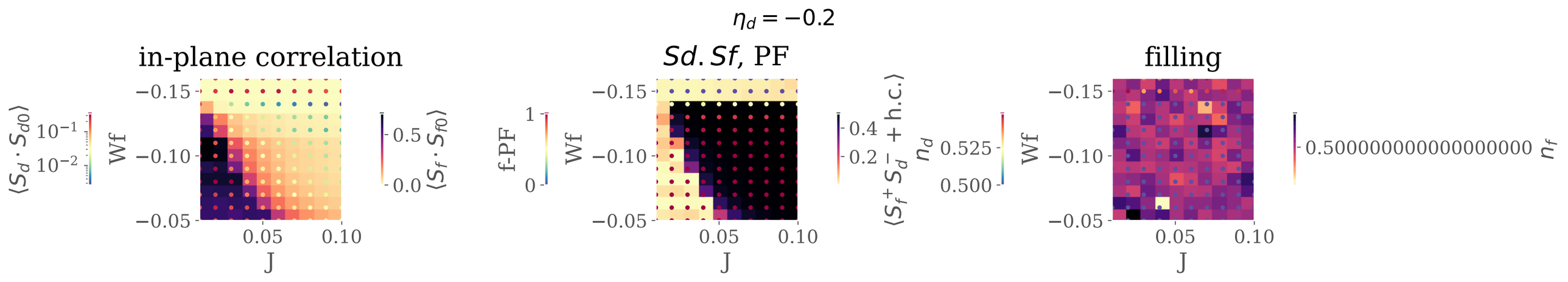
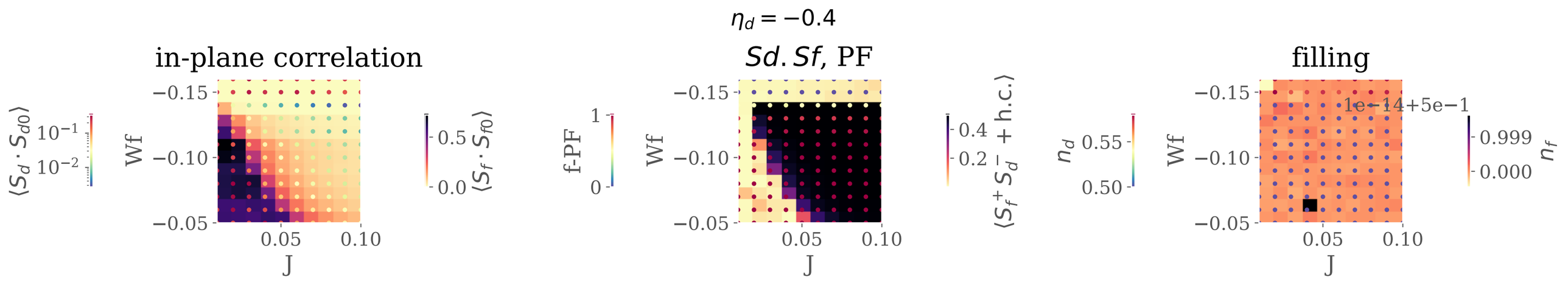

$\eta_d = 0.4$
in-plane correlation
$\langle S_d \cdot S_{d0} \rangle$
10^{-1}
10^{-2}
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.5
0.0
$\langle S_f \cdot S_{f0} \rangle$
$Sd.Sf$, PF
f-PF
1
0
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.25
0.00
$\langle S_f^+ S_d^- + \text{h.c.} \rangle$
filling
n_d
0.50
0.45
Wf
−0.15
−0.10
−0.05
1e−14+5e−1
0.05
0.10
J
1
−1
n_f


$\eta_d = 0.2$
in-plane correlation
$\langle S_d \cdot S_{d0} \rangle$
10^{-1}
10^{-2}
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
$\langle S_f \cdot S_{f0} \rangle$
0.5
0.0
$Sd.Sf$, PF
f-PF
1
0
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
$\langle S_f^+ S_d^- + \text{h.c.} \rangle$
0.4
0.2
0.0
filling
n_d
0.500
0.475
Wf
−0.15
−0.10
−0.05
1e−14+5e−1
0.05
0.10
J
n_f
0.9992
0.0000


$\eta_d = 0.0$
in-plane correlation
$\langle S_d \cdot S_{d0} \rangle$
10^{-1}
10^{-2}
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
$\langle S_f \cdot S_{f0} \rangle$
0.5
0.0
Sd. Sf, PF
f-PF
1
0
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
$\langle S_f^+ S_d^- + \text{h.c.} \rangle$
0.4
0.2
filling
n_d
0.51
0.50
0.49
Wf
−0.15
−0.10
−0.05
1e−14+5e−1
0.05
0.10
J
n_f
0.999
0.000


$\eta_d = -0.2$
in-plane correlation
$\langle S_d \cdot S_{d0} \rangle$
10^{-1}
10^{-2}
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.5
0.0
$\langle S_f \cdot S_{f0} \rangle$
Sd. Sf, PF
f-PF
1
0
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.4
0.2
$\langle S_f^+ S_d^- + \text{h.c.} \rangle$
filling
n_d
0.525
0.500
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.5000000000000000
n_f


$\eta_d = -0.4$
in-plane correlation
$\langle S_d \cdot S_{d0} \rangle$
10^{-1}
10^{-2}
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.5
0.0
$\langle S_f \cdot S_{f0} \rangle$
Sd. Sf, PF
f-PF
1
0
Wf
−0.15
−0.10
−0.05
0.05
0.10
J
0.4
0.2
$\langle S_f^+ S_d^- + \text{h.c.} \rangle$
filling
n_d
0.55
0.50
Wf
−0.15
−0.10
−0.05
1e−14+5e−1
0.05
0.10
J
0.999
0.000
n_f