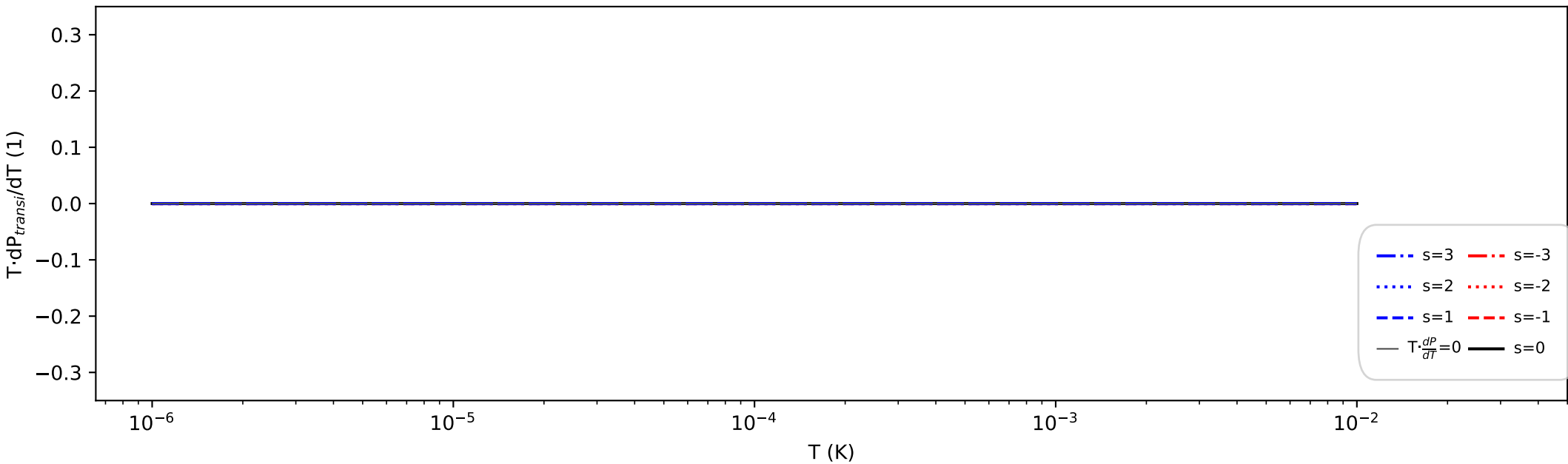$\frac{0}{1}\pi$-pulse, n=0, $P_{\geq n_{max}}=0.01$, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{0}{1}\pi$-pulse, n=0, $P_{thres}=0.001$, ^{138}Ba$^+$
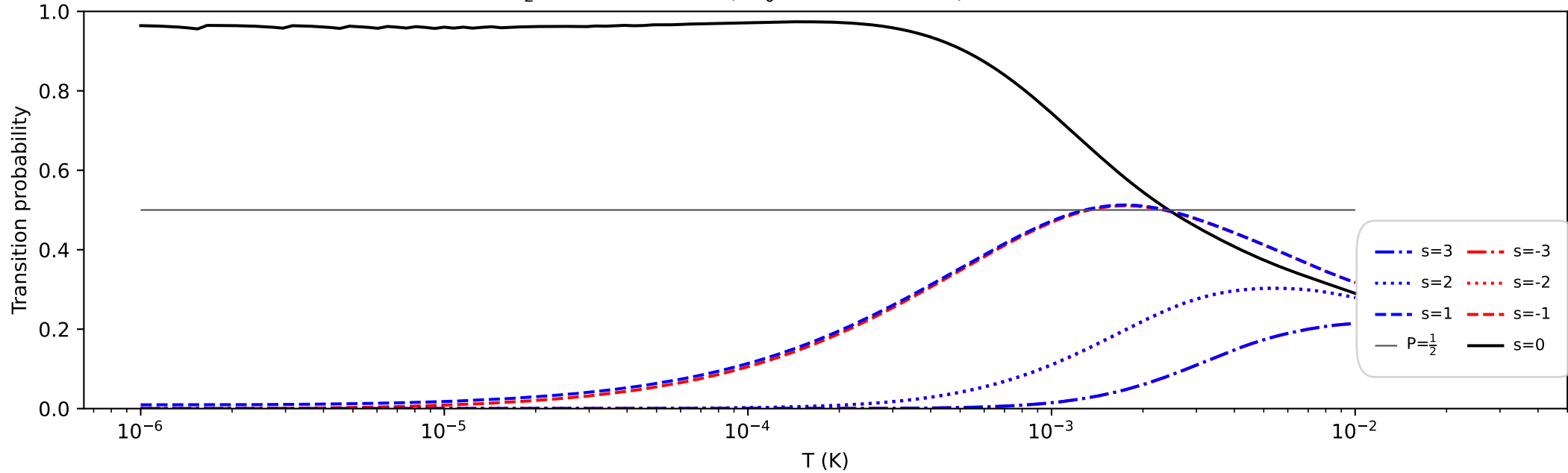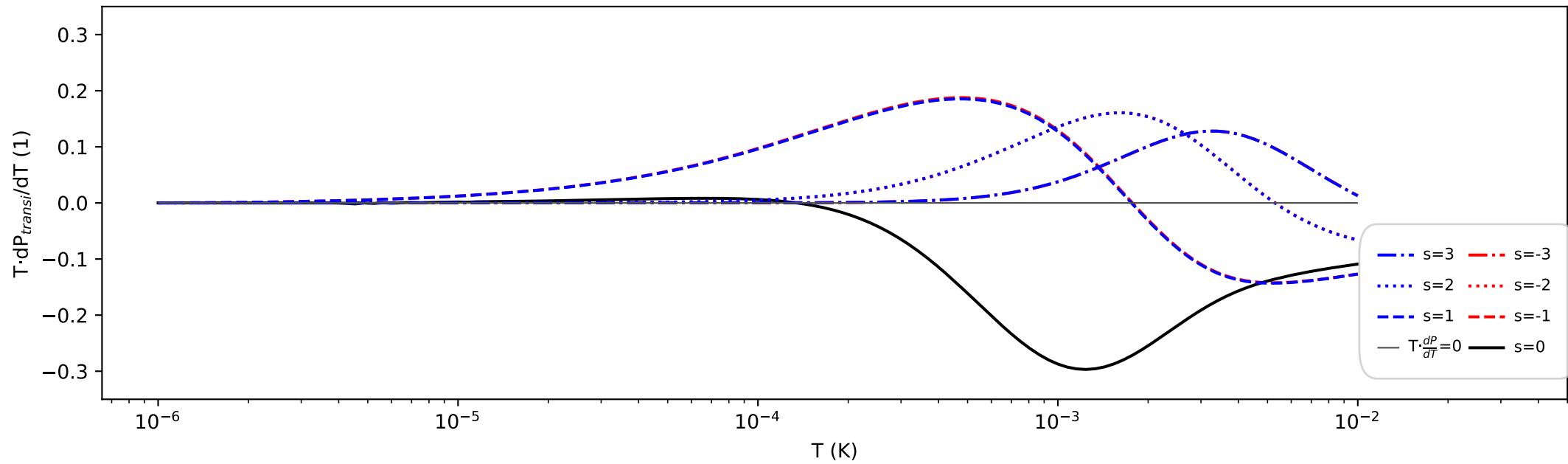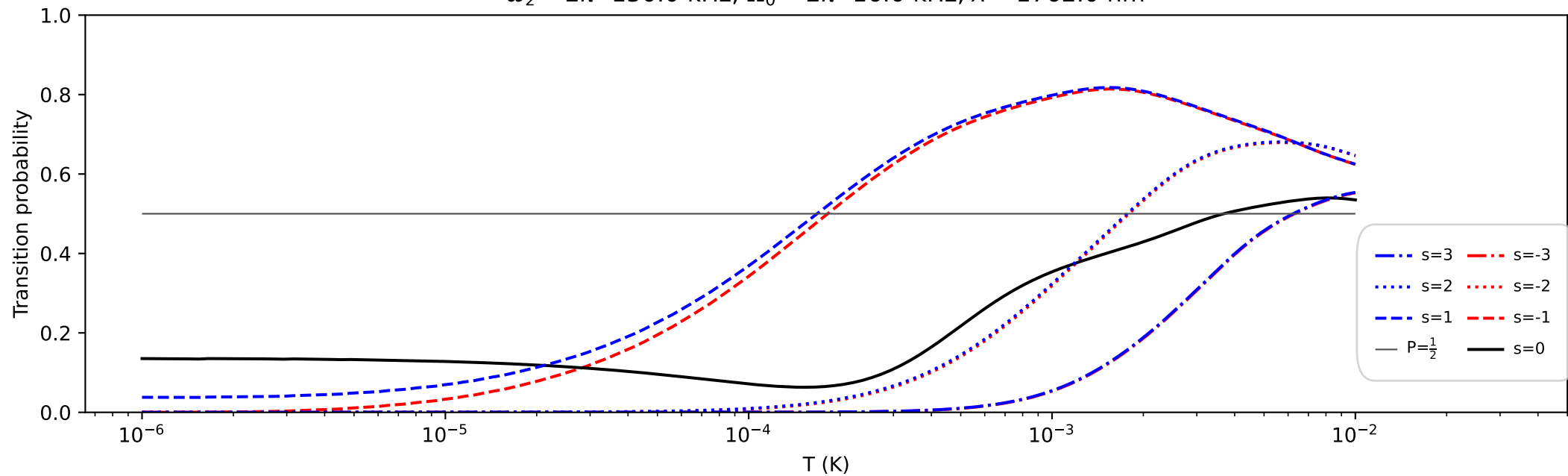$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{1}{16}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, $^{138}\text{Ba}^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Legend (top plot):
- s=3
- s=2
- s=1
- P=$\frac{1}{2}$
- s=-3
- s=-2
- s=-1
- s=0
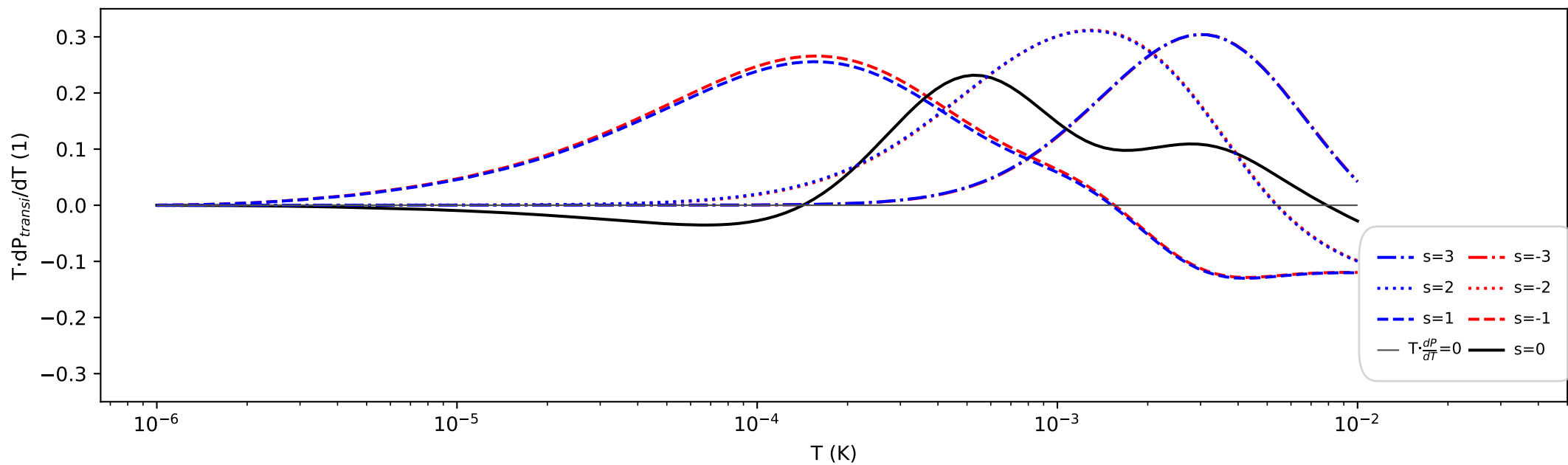
$\frac{1}{16}\pi$-pulse, n=0, P_{thres}=0.001, $^{138}\text{Ba}^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Legend (bottom plot):
- s=3
- s=2
- s=1
- T·$\frac{dP}{dT}$=0
- s=-3
- s=-2
- s=-1
- s=0

Top panel title: $\frac{1}{8}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Top panel y-axis: Transition probability
Top panel x-axis: T (K)

Top panel legend: s=3, s=-3, s=2, s=-2, s=1, s=-1, P=$\frac{1}{2}$, s=0

Bottom panel title: $\frac{1}{8}\pi$-pulse, n=0, P$_{thres}$=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Bottom panel y-axis: T·dP$_{transi}$/dT (1)
Bottom panel x-axis: T (K)

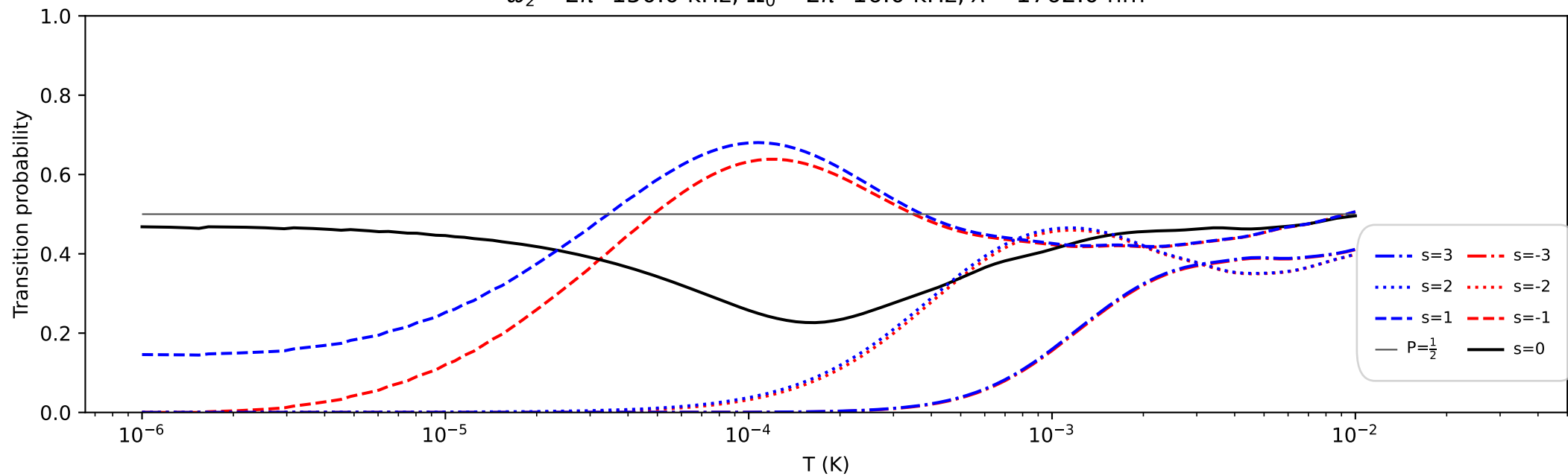Bottom panel legend: s=3, s=-3, s=2, s=-2, s=1, s=-1, T·$\frac{dP}{dT}$=0, s=0

Top figure title: $\frac{1}{4}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

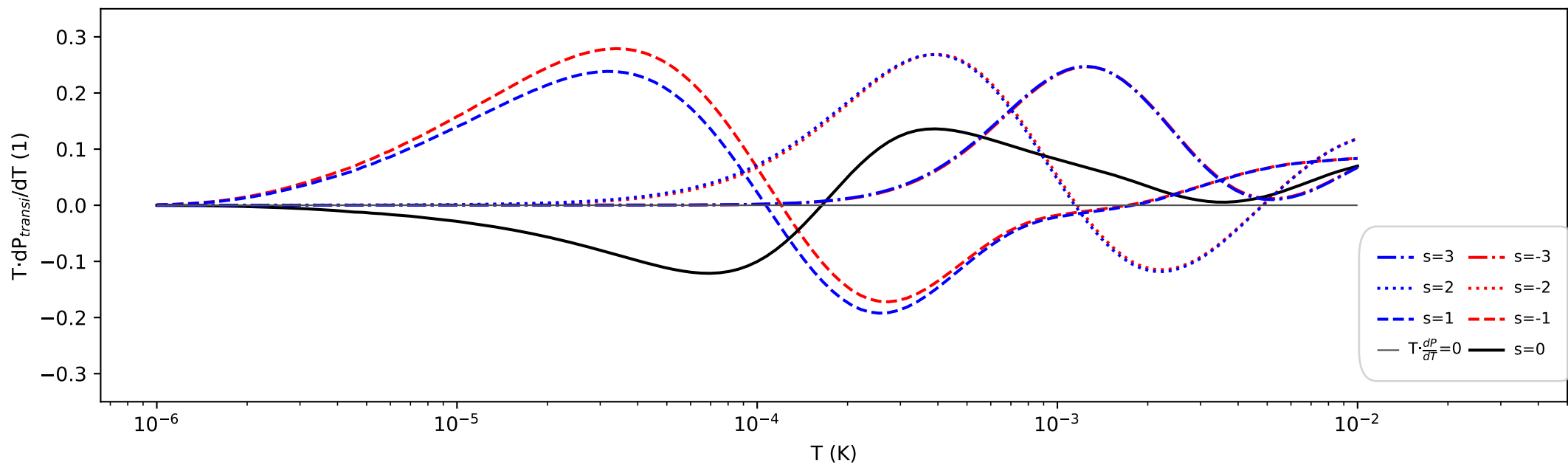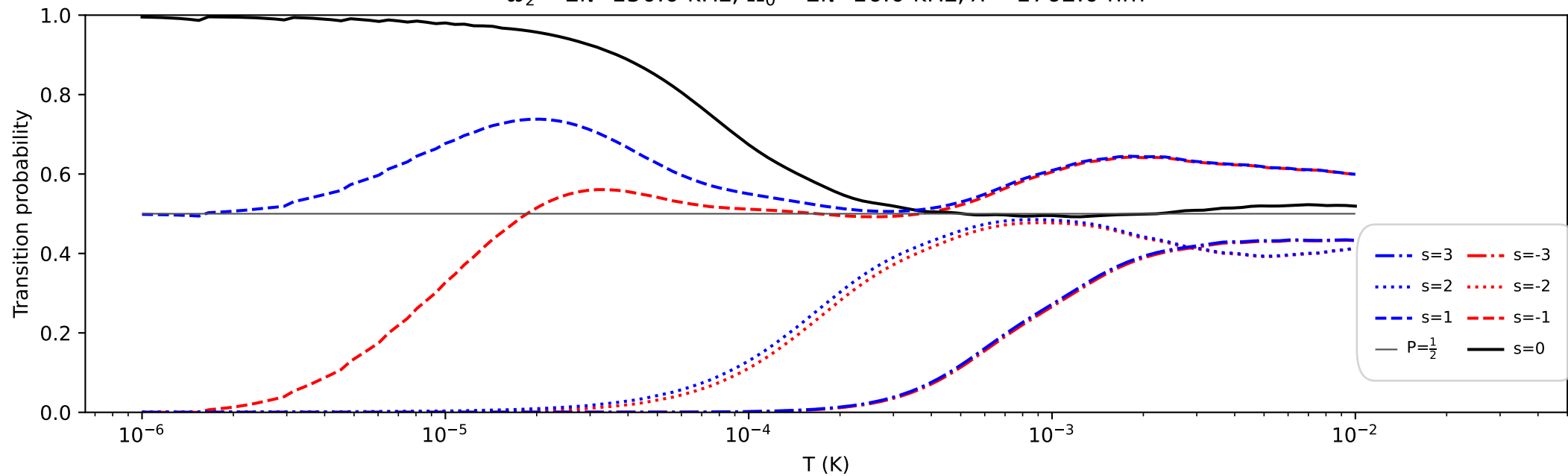Top y-axis: Transition probability
Top x-axis: T (K)

Legend: s=3, s=-3, s=2, s=-2, s=1, s=-1, P=$\frac{1}{2}$, s=0

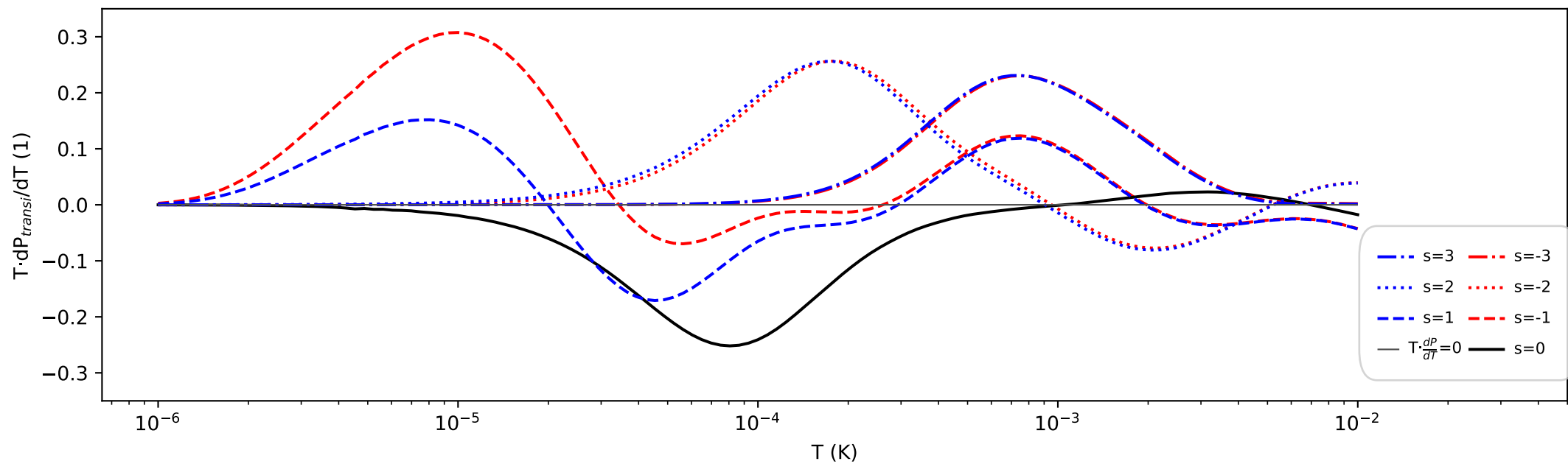Bottom figure title: $\frac{1}{4}\pi$-pulse, n=0, P_{thres}=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Bottom y-axis: T·dP$_{transi}$/dT (1)
Bottom x-axis: T (K)

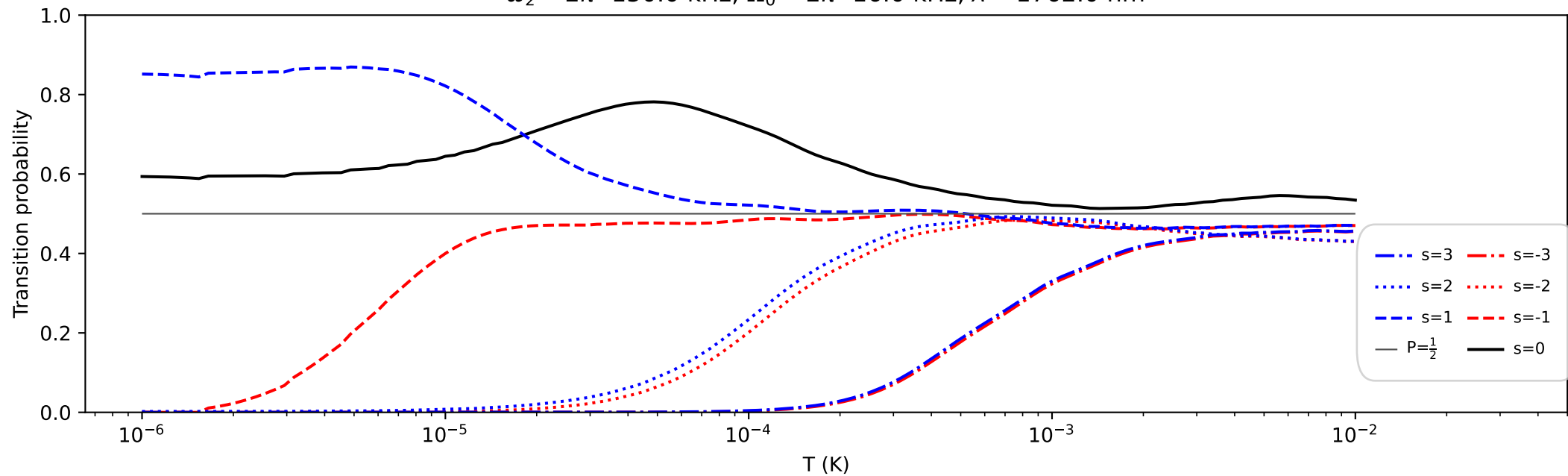Legend: s=3, s=-3, s=2, s=-2, s=1, s=-1, T·$\frac{dP}{dT}$=0, s=0

$\frac{1}{2}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{1}{2}\pi$-pulse, n=0, P_{thres}=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{3}{4}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
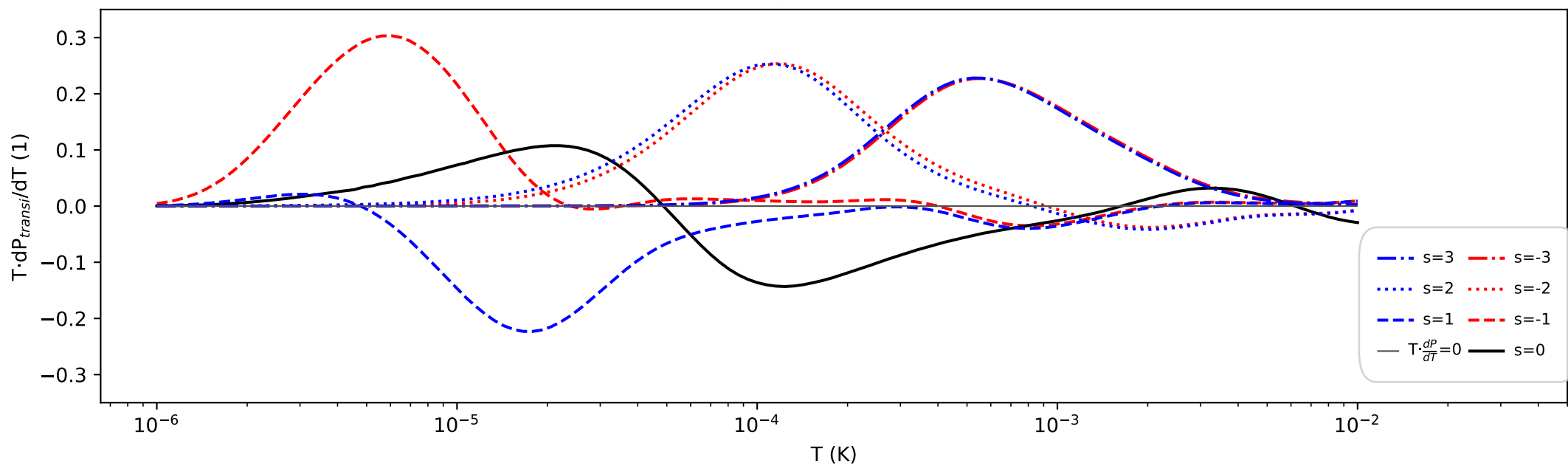$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{3}{4}\pi$-pulse, n=0, P_{thres}=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

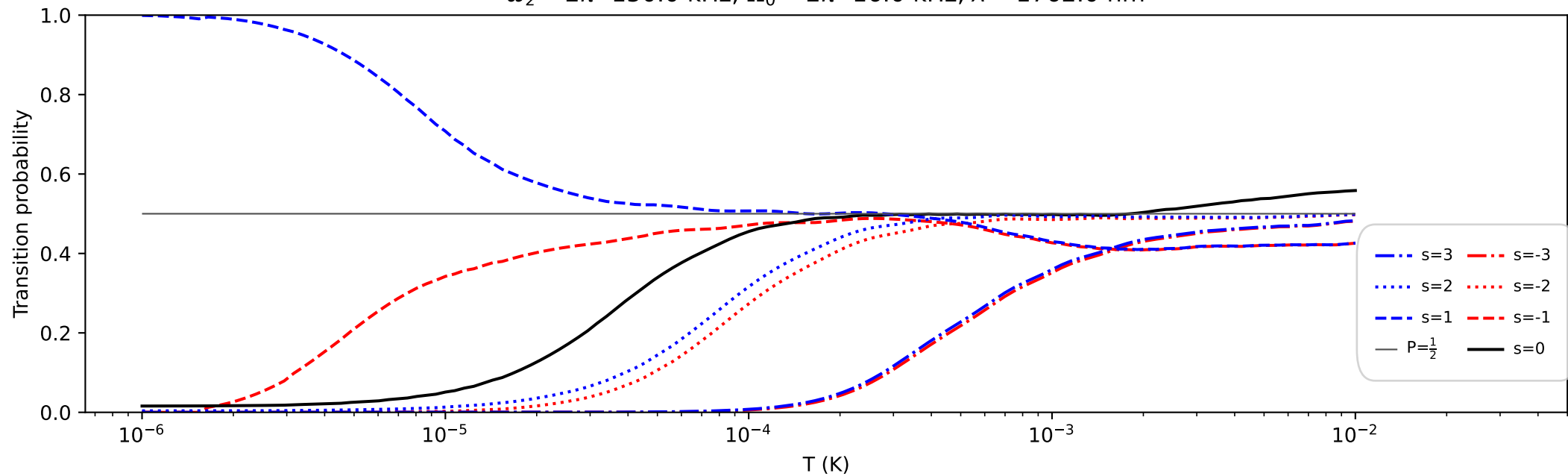$\frac{1}{1}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{1}{1}\pi$-pulse, n=0, P$_{thres}$=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Top panel title: $\frac{5}{4}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, $^{138}\text{Ba}^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

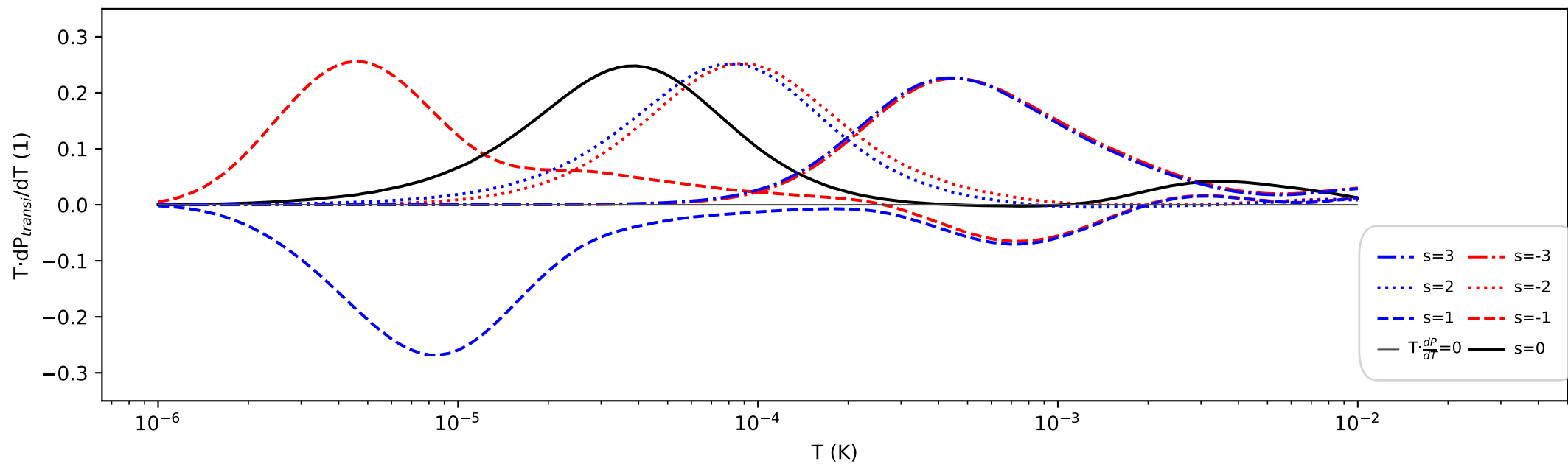Top panel y-axis: Transition probability
Top panel x-axis: T (K)

Top panel legend:
s=3, s=-3
s=2, s=-2
s=1, s=-1
$P=\frac{1}{2}$, s=0

Bottom panel title: $\frac{5}{4}\pi$-pulse, n=0, P_{thres}=0.001, $^{138}\text{Ba}^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

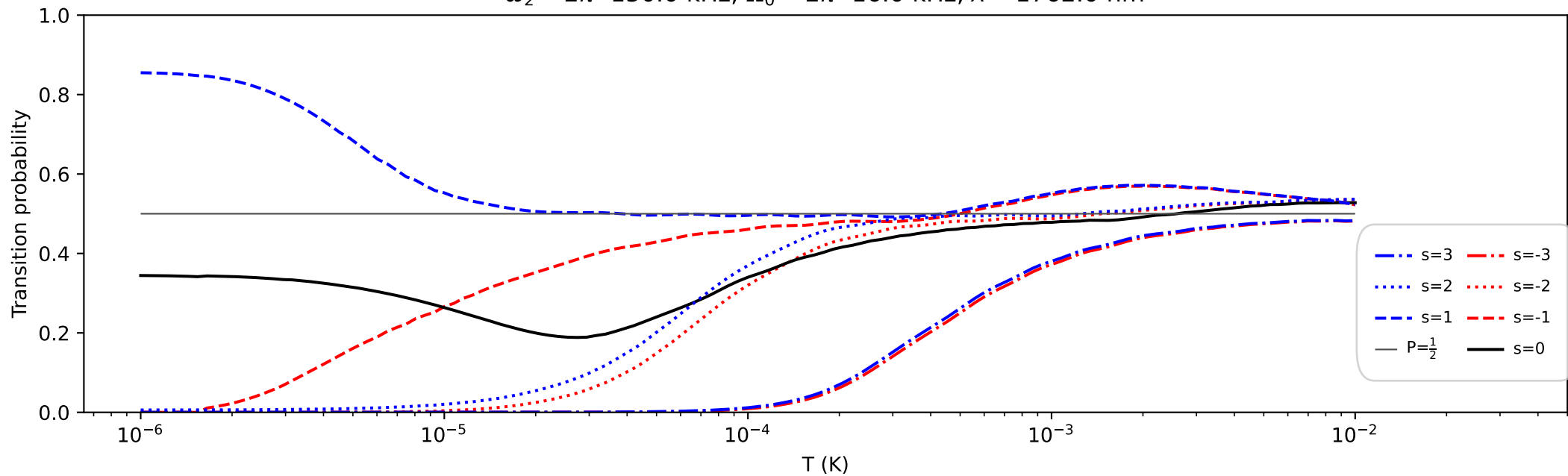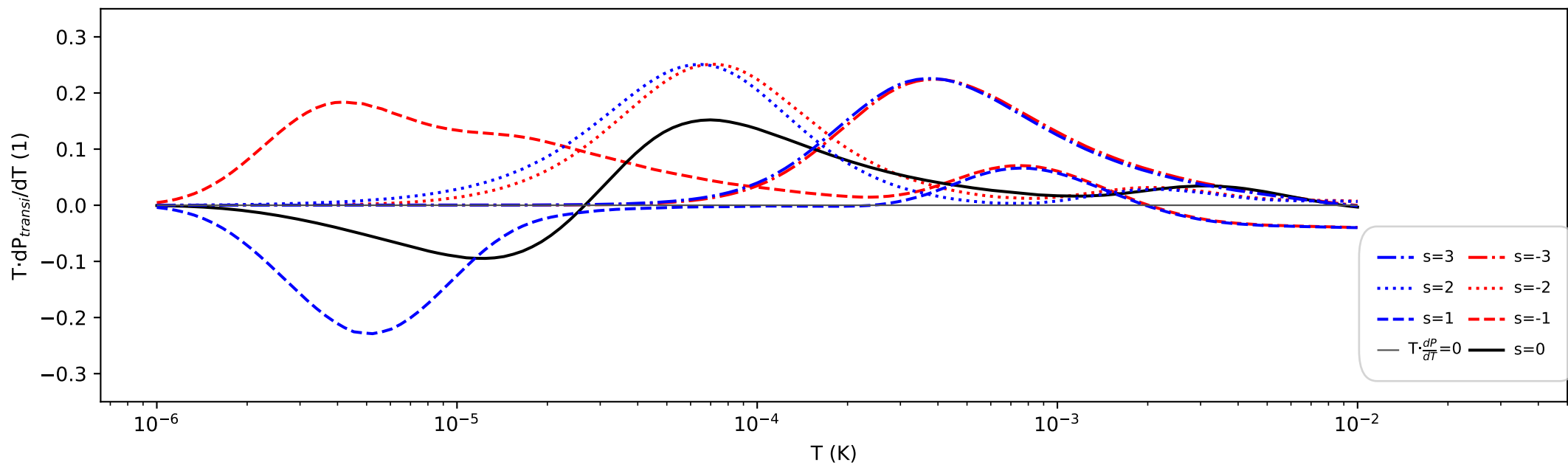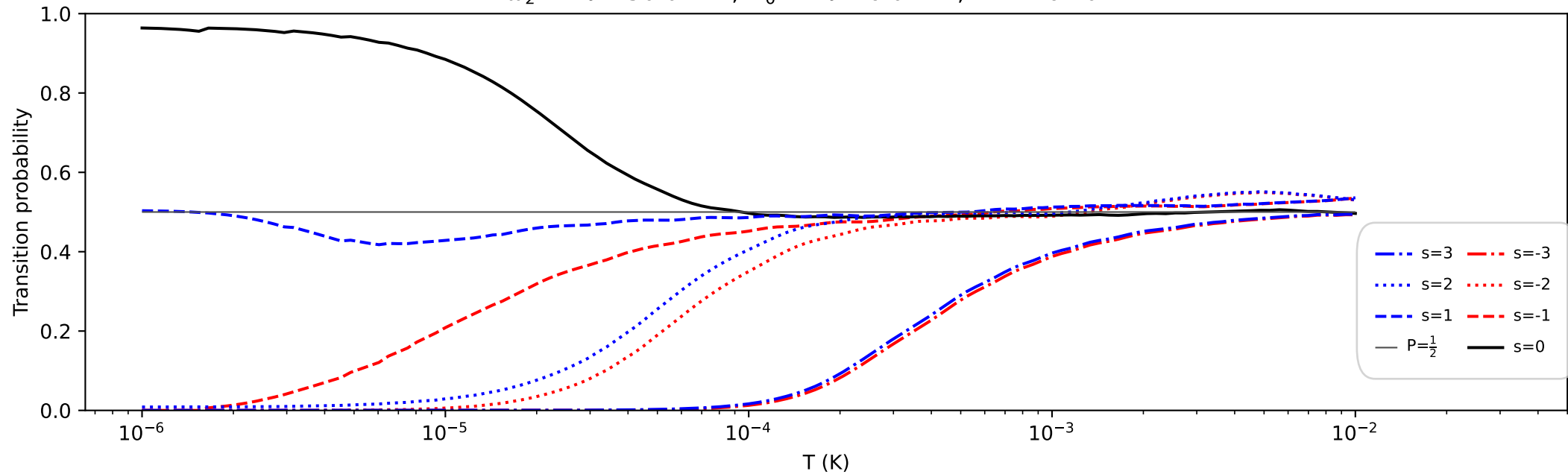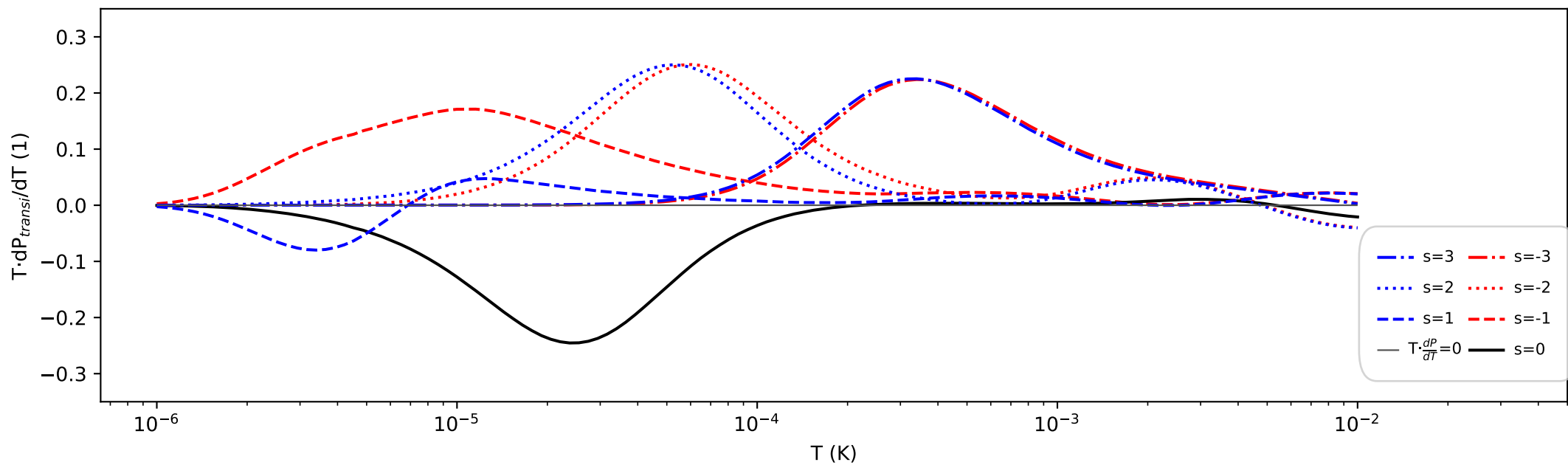Bottom panel y-axis: $T \cdot dP_{transi}/dT$ (1)
Bottom panel x-axis: T (K)

Bottom panel legend:
s=3, s=-3
s=2, s=-2
s=1, s=-1
$T \cdot \frac{dP}{dT}=0$, s=0

$\frac{3}{2}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

$\frac{3}{2}\pi$-pulse, n=0, P_{thres}=0.001, ^{138}Ba$^+$
$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Top panel title: $\frac{7}{4}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, ^{138}Ba$^+$

$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Bottom panel title: $\frac{7}{4}\pi$-pulse, n=0, P_{thres}=0.001, ^{138}Ba$^+$

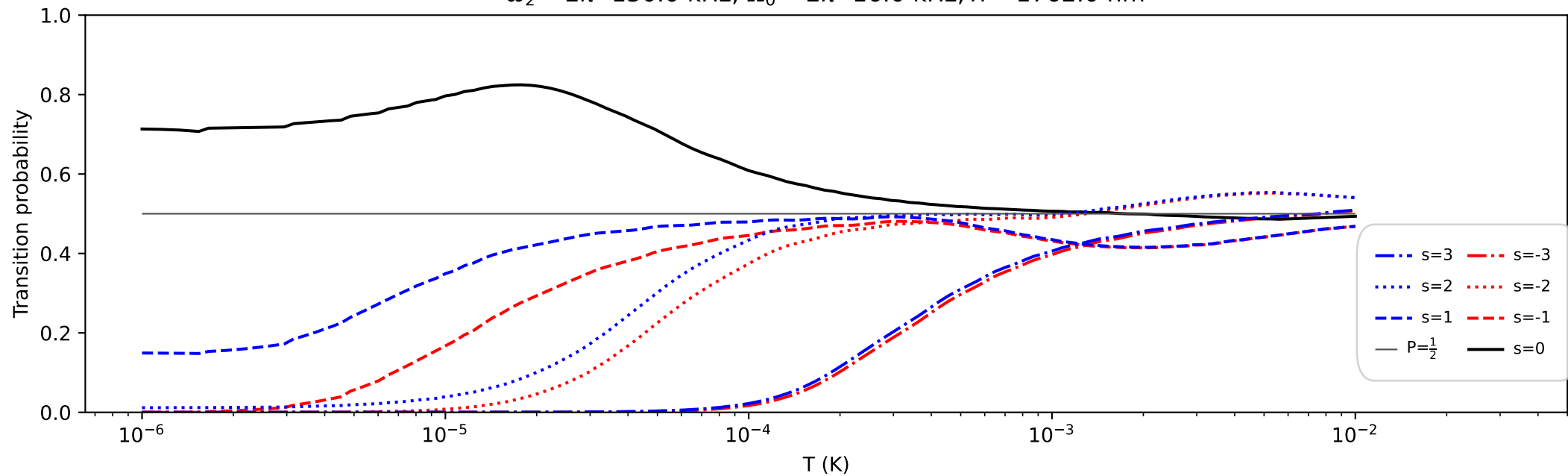$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Top panel axes: Transition probability vs T (K)

Legend (top): s=3, s=-3, s=2, s=-2, s=1, s=-1, $P=\frac{1}{2}$, s=0

Bottom panel axes: $T \cdot dP_{transi}/dT$ (1) vs T (K)

Legend (bottom): s=3, s=-3, s=2, s=-2, s=1, s=-1, $T \cdot \frac{dP}{dT}=0$, s=0

$\frac{2}{1}\pi$-pulse, n=0, $P_{\geq n_{max}}$=0.01, $^{138}\text{Ba}^+$
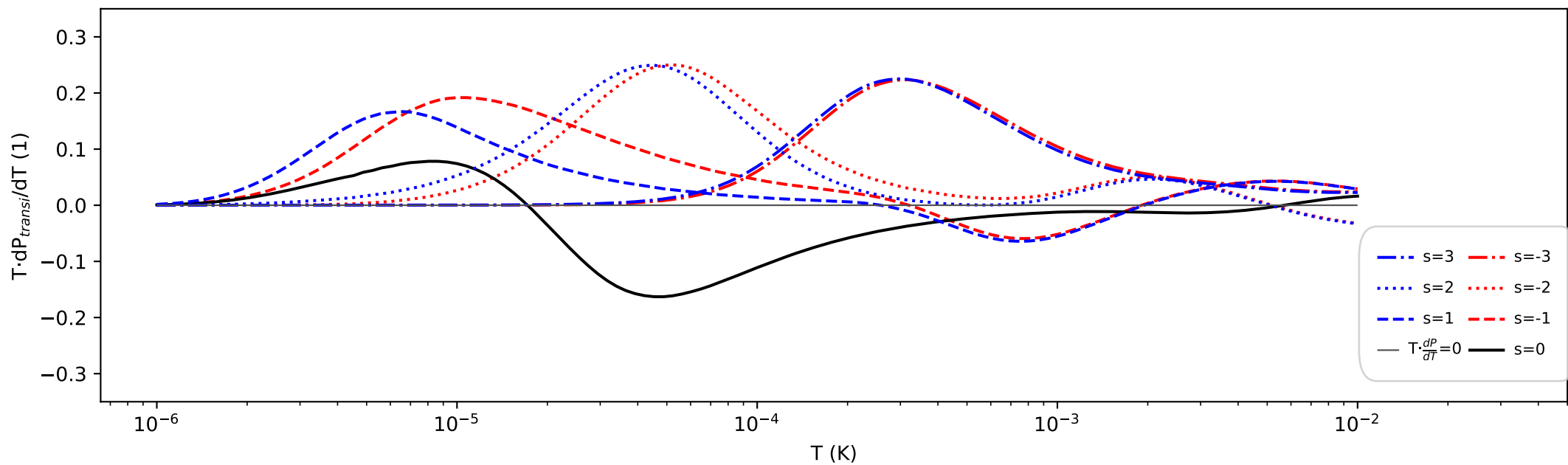$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Legend (top plot):
- s=3
- s=2
- s=1
- P=$\frac{1}{2}$
- s=-3
- s=-2
- s=-1
- s=0

$\frac{2}{1}\pi$-pulse, n=0, P_{thres}=0.001, $^{138}\text{Ba}^+$
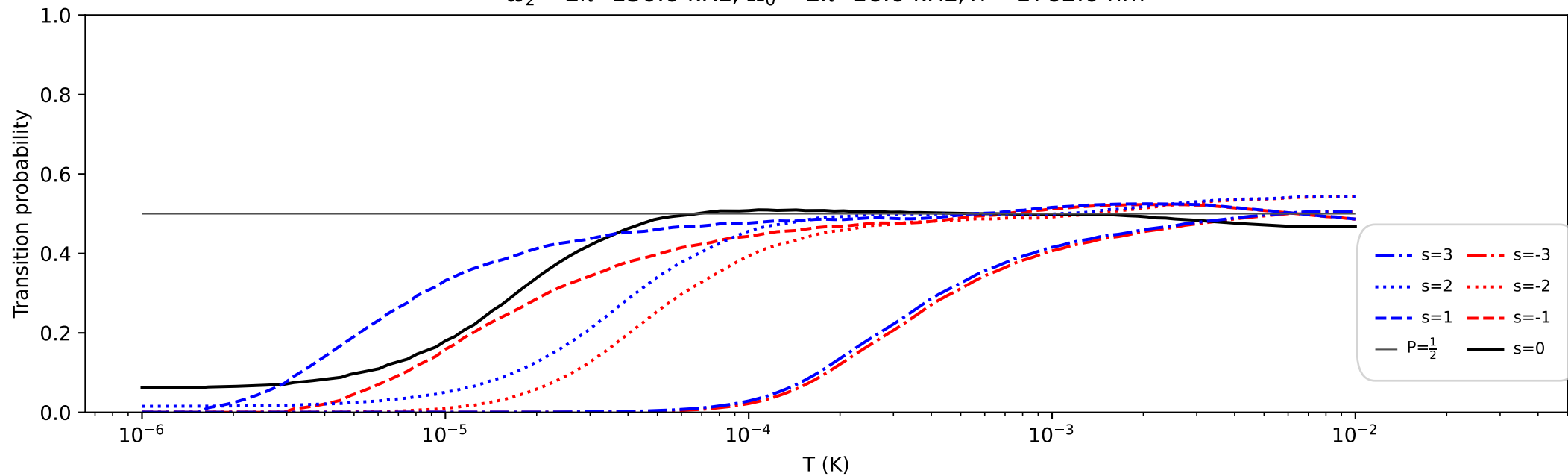$\omega_z = 2\pi \cdot 150.0$ kHz, $\Omega_0 = 2\pi \cdot 16.0$ kHz, $\lambda = 1762.0$ nm

Legend (bottom plot):
- s=3
- s=2
- s=1
- T·$\frac{dP}{dT}$=0
- s=-3
- s=-2
- s=-1
- s=0