Notation comparisons

I list here some definitions which may differ among textbooks and my notes.

Quantity	Peskin	My notes	Bailin and Love	Abers and Lee	Bjorken and Drell	Weinberg QFT	Weinberg Gravity	Kaku
$g_{\mu\nu} = s_\eta(1,-1,-1,-1)$, $s_\eta =$	$+1$	$+1$			$+1$	-1	-1	$+1$
ϵ^{0123}	1				1			
$\tilde{f}(k)$	$\int d^4x e^{ikx} f(x)$							
$F^{\text{Abelian}}_{\mu\nu} = s_F(\partial_\mu A_\nu - \partial_\nu A_\mu)$, $s_F =$	$+1$		$+1$	$+1$	-1	$+1$	$+1$	
$\vec{E}_x = s_E F^{01}$, $s_E =$	-1				$+1$		$+1$	
$\vec{B}_z = s_B F^{12}$, $s_B =$	-1				$+1$		$+1$	
$\partial_\mu F^{\mu\nu} = s_J j^\nu$, $s_J =$	e, $e < 0$						-1	
$\mathcal{L} = -\frac{1}{4}F^{\mu\nu}F_{\mu\nu} + s_A A_\mu J^\mu$, $s_A =$					$-e_0$	$+1$		

Everyone agrees that $A^0 = \phi$ and $\vec{E} = -\vec{\nabla}\phi + \ldots$ which requires $s_E s_\eta s_F = -1$.

Quantity	Peskin	My notes	Bailin/Love	Abers and Lee
$\tilde{f}(k)$	$\int d^4x e^{ikx} f(x)$			
A^0	$\frac{Q}{4\pi r}$			
σ^μ	$(1, \vec{\sigma}), \bar{\sigma}^\mu = \sigma_\mu$			
γ^μ	$\begin{pmatrix} 0 & \sigma^\mu \\ \bar{\sigma}^\mu & 0 \end{pmatrix}$			
γ^5	$i\gamma^0\gamma^1\gamma^2\gamma^3$		$i\gamma^0\gamma^1\gamma^2\gamma^3$	
$\sum_s u(p)\bar{u}(p) =$	$p_\mu\gamma^\mu + m$			
lattice spacing	ϵ	a		
g_L	$U(x', x) = e^{+ig\epsilon A^a_\mu t^a}$	e^{iaA_μ}		
gauge trsf	$V(x) = e^{i\alpha^a(x)t^a}$	$e^{i\lambda(x)}, \lambda = \lambda^{(b)} L_b$	$e^{-ig\mathbf{T}\cdot\Lambda(x)}$	$e^{-i\mathbf{L}\cdot\theta}$
D_μ	$\partial_\mu - igA^a_\mu t^a$	$\partial_\mu - iA^{(b)}_\mu M(L_b)$	$\partial_\mu + ig\mathbf{T}\cdot A_\mu$	$\partial_\mu - ig\mathbf{L}\cdot\mathbf{A}_\mu$
$A_\mu \xrightarrow[\text{gauge}]{}$	$V\left(A^a_\mu + \frac{i}{g}\partial_\mu\right)V^\dagger$	$e^{i\lambda}(A_\mu + i\partial_\mu)e^{-i\lambda}$	$U(x)(A_\mu(x) - \frac{i}{g}\partial_\mu)U^{-1}(x)$	$U(A_\mu(x) + \frac{i}{g}\partial_\mu)U^{-1}(x)(?)$
$F_{\mu\nu} = \partial_\mu A^a_\nu - \partial_\nu A^a_\mu +$	$+gf^{abc}A^b_\mu A^c_\nu = -ig[A_\mu, A_\nu]$	$-i[A_\mu, A_\nu]$	$+ig[A_\mu, A_\nu]$	$+gc^{ijk}A^j_\mu A^k_\nu$
$[D_\mu, D_\nu]$	$-igF^a_{\mu\nu}t^a$	$-iF_{\mu\nu}$	$igF_{\mu\nu}$	
Lie alg	$if^{abc}T^c$	$ic_{ab}{}^c L_c$	$if^{abc}T^c$	

Everyone agrees $\mathcal{L} = -\frac{1}{4}F^a_{\mu\nu}F^{\mu\nu}_a + \bar{\psi}(i\not{D} - m)\psi$. I think everyone agrees $\alpha = e^2/4\pi\hbar c$.

Notation Comparisons, More Books

Quantity	Peskin	Bjorken and Drell	Weinberg	Kaku
$g_{\mu\nu}$ (or $\eta_{\mu\nu}$)	$(1,-1,-1,-1)$	$(1,-1,-1,-1)$	$(-1,1,1,1)$	$\eta=(1,-1,-1,-1)$
ϵ^{0123}	1		1	
$\tilde{f}(k)$	$\int d^4x e^{ikx} f(x)$			
A^0	$\frac{Q}{4\pi r}$			
σ^μ	$(1,\vec{\sigma}), \bar{\sigma}^\mu = \sigma_\mu$			
γ^μ	$\begin{pmatrix} 0 & \sigma^\mu \\ \bar{\sigma}^\mu & 0 \end{pmatrix}$		$\{\gamma^\mu, \gamma^\nu\} = 2\eta_{\mu\nu}$	
γ^5	$i\gamma^0\gamma^1\gamma^2\gamma^3$		$i\gamma_0\gamma_1\gamma_2\gamma_3$	
$\sum_s u(p)\bar{u}(p) =$	$p_\mu\gamma^\mu + m$	$\frac{p_\mu\gamma^\mu+m}{2m}$		$\frac{p_\mu\gamma^\mu+m}{2m}$
lattice spacing	ϵ			
g_L	$U(x',x) = e^{+ig\epsilon A^a_\mu t^a}$			
gauge trsf	$V(x) = e^{i\alpha^a(x)t^a}$			
D_μ	$\partial_\mu - igA^a_\mu t^a$			
$A_\mu \xrightarrow[\text{gauge}]{}$	$V\left(A^a_\mu + \frac{i}{g}\partial_\mu\right)V^\dagger$			
$F_{\mu\nu} = \partial_\mu A^a_\nu - \partial_\nu A^a_\mu +$	$+gf^{abc}A^b_\mu A^c_\nu = -ig[A_\mu, A_\nu]$			
$[D_\mu, D_\nu]$	$-igF^a_{\mu\nu}t^a$			
Lie alg	$if^{abc}T^c$			